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Appendix A. Air Quality and Greenhouse Gas Emissions Modeling Files

Appendix A-1.1: Alternative 1 Unmitigated Construction Emissions

Sepulveda Transit Corridor Project - ALTERNATIVE 1
Maximum Regional (Offsite + Onsite) Daily Emissions

						Max Day Date									
						8/2/2032	8/2/2032	8/2/2032	8/2/2032	4/1/2033	4/1/2033	4/1/2033	4/1/2033	4/1/2033	4/1/2033
						Daily Emissions (lb/day)									
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	**0.570**	**4.268**	**14.349**	**0.022**	0.538	0.097	0.635	0.096	0.091	0.187
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	**0.567**	**5.378**	**14.518**	**0.031**	1.369	0.107	1.476	0.242	0.101	0.343
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	**5.517**	**39.445**	**171.726**	**0.330**	**5.193**	**1.258**	**6.450**	**1.063**	**1.197**	**2.261**
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	0.721	4.834	21.355	0.038	0.443	0.158	0.601	0.094	0.150	0.244
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	0.418	2.677	12.206	0.022	0.339	0.098	0.438	0.067	0.093	0.161
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	**0.570**	**4.268**	**14.349**	**0.022**	0.538	0.097	0.635	0.096	0.091	0.187
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	**0.552**	**4.616**	**14.352**	**0.025**	0.783	0.095	0.878	0.140	0.090	0.230
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH)	6/1/2032	3/31/2035	5	739	10	**2.354**	**16.285**	**73.486**	**0.136**	**1.928**	**0.529**	**2.458**	**0.399**	**0.504**	**0.903**
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembly	4/1/2035	8/31/2035	5	110	10	0.721	4.834	21.355	0.038	0.443	0.158	0.601	0.094	0.150	0.244
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	9/1/2035	10/31/2035	5	43	10	0.420	2.680	12.228	0.022	0.339	0.099	0.438	0.067	0.093	0.161
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	**0.570**	**4.268**	**14.349**	**0.022**	0.538	0.097	0.635	0.096	0.091	0.187
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	**0.552**	**4.616**	**14.352**	**0.025**	0.725	0.095	0.820	0.131	0.090	0.221
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	**0.807**	**6.092**	**24.783**	**0.051**	**1.073**	**0.185**	**1.259**	**0.207**	**0.177**	**0.384**
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	0.730	4.859	21.441	0.038	**0.443**	**0.161**	**0.604**	**0.094**	**0.153**	**0.247**
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	9/1/2033	10/31/2035	5	565	10	0.423	2.688	12.283	0.022	0.339	0.099	0.438	0.067	0.094	0.161
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	**0.570**	**4.268**	**14.349**	**0.022**	0.538	0.097	0.635	0.096	0.091	0.187
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	**0.552**	**4.616**	**14.352**	**0.025**	0.756	0.095	0.851	0.136	0.090	0.226
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	8/1/2032	5/31/2033	5	217	10	**1.615**	**12.836**	**49.558**	**0.107**	**2.484**	**0.380**	**2.865**	**0.471**	**0.362**	**0.833**
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	0.730	4.859	21.441	0.038	0.443	0.161	0.604	0.094	0.153	0.247
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	0.423	2.688	12.283	0.022	0.339	0.099	0.438	0.067	0.094	0.161
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	0.570	4.268	14.349	0.022	0.538	0.097	0.635	0.096	0.091	0.187
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	0.534	4.582	14.282	0.024	0.730	0.088	0.818	0.132	0.083	0.215
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	**0.796**	**5.587**	**24.656**	**0.047**	0.784	0.178	0.962	0.157	0.170	0.327
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	0.730	4.859	21.441	0.038	0.443	0.161	0.604	0.094	0.153	0.247
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	0.423	2.688	12.283	0.022	**0.339**	**0.099**	**0.438**	**0.067**	**0.094**	**0.161**
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	0.570	4.268	14.349	0.022	0.538	0.097	0.635	0.096	0.091	0.187
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	0.534	4.582	14.282	0.024	0.720	0.088	0.808	0.130	0.083	0.214
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	**0.796**	**5.587**	**24.656**	**0.047**	0.784	0.178	0.962	0.157	0.170	0.327
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	0.730	4.859	21.441	0.038	0.443	0.161	0.604	0.094	0.153	0.247
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	0.423	2.688	12.283	0.022	**0.339**	**0.099**	**0.438**	**0.067**	**0.094**	**0.161**
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	0.570	4.268	14.349	0.022	0.538	0.097	0.635	0.096	0.091	0.187
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	0.534	4.582	14.282	0.024	0.724	0.088	0.812	0.131	0.083	0.214
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	**0.796**	**5.587**	**24.656**	**0.047**	**0.784**	**0.178**	**0.962**	**0.157**	**0.170**	**0.327**
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	0.724	4.846	21.393	0.038	0.443	0.160	0.603	0.094	0.152	0.245
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	0.421	2.683	12.252	0.022	0.339	0.099	0.438	0.067	0.094	0.161
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	0.570	4.268	14.349	0.022	0.538	0.097	0.635	0.096	0.091	0.187
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	0.534	4.582	14.282	0.024	0.720	0.088	0.808	0.130	0.083	0.214
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	**0.796**	**5.587**	**24.656**	**0.047**	**0.784**	**0.178**	**0.962**	**0.157**	**0.170**	**0.327**
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	0.730	4.859	21.441	0.038	0.443	0.161	0.604	0.094	0.153	0.247
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	0.423	2.688	12.283	0.022	0.339	0.099	0.438	0.067	0.094	0.161
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	0.570	4.268	14.349	0.022	0.538	0.097	0.635	0.096	0.091	0.187
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	0.534	4.582	14.282	0.024	0.721	0.088	0.809	0.131	0.083	0.214
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	**0.796**	**5.587**	**24.656**	**0.047**	0.784	0.178	0.962	0.157	0.170	0.327
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	0.730	4.859	21.441	0.038	**0.443**	**0.161**	**0.604**	**0.094**	**0.153**	**0.247**
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	0.423	2.688	12.283	0.022	0.339	0.099	0.438	0.067	0.094	0.161
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	0.570	4.268	14.349	0.022	0.538	0.097	0.635	0.096	0.091	0.187
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	0.534	4.582	14.282	0.024	0.726	0.088	0.814	0.131	0.083	0.215
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	0.796	5.587	24.656	0.047	0.784	0.178	0.962	0.157	0.170	0.327
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	**0.736**	**4.870**	**21.492**	**0.038**	0.443	0.163	0.606	0.094	0.155	0.249
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	11/1/2032	12/31/2034	5	565	10	0.426	2.695	12.314	0.022	**0.339**	**0.099**	**0.439**	**0.067**	**0.094**	**0.162**
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	0.570	4.268	14.349	0.022	0.538	0.097	0.635	0.096	0.091	0.187
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	0.534	4.582	14.282	0.024	0.724	0.088	0.812	0.131	0.083	0.214
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	**0.796**	**5.587**	**24.656**	**0.047**	0.784	0.178	0.962	0.157	0.170	0.327
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	0.730	4.859	21.441	0.038	**0.443**	**0.161**	**0.604**	**0.094**	**0.153**	**0.247**
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	0.423	2.688	12.283	0.022	0.339	0.099	0.438	0.067	0.094	0.161
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	0.570	4.268	14.349	0.022	0.538	0.097	0.635	0.096	0.091	0.187
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	0.534	4.582	14.282	0.024	0.724	0.088	0.812	0.131	0.083	0.214
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	**0.796**	**5.587**	**24.656**	**0.047**	0.784	0.178	0.962	0.157	0.170	0.327
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	0.730	4.859	21.441	0.038	**0.443**	**0.161**	**0.604**	**0.094**	**0.153**	**0.247**
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	0.423	2.688	12.283	0.022	0.339	0.099	0.438	0.067	0.094	0.161

Sepulveda Transit Corridor Project - ALTERNATIVE 1
Maximum Regional (Offsite + Onsite) Daily Emissions

						Max Day Date									
						8/2/2032	8/2/2032	8/2/2032	8/2/2032	4/1/2033	4/1/2033	4/1/2033	4/1/2033	4/1/2033	4/1/2033
						Daily Emissions (lb/day)									
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	**0.511**	**4.182**	**14.143**	**0.021**	0.538	0.076	0.614	0.096	0.072	0.168
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	0.319	2.115	11.261	0.021	2.150	0.056	2.206	0.998	0.054	1.052
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	0.398	3.516	15.716	0.035	**2.816**	**0.085**	**2.901**	**1.112**	**0.082**	**1.194**
TPSS 2-Wilshire Blvd-Concrete Work	6/1/2033	7/31/2033	5	43	10	0.555	3.430	13.927	0.024	0.715	0.124	0.839	0.150	0.116	0.267
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	2.264	4.161	14.096	0.021	0.538	0.071	0.609	0.096	0.067	0.163
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	0.636	3.927	21.641	0.035	2.452	0.128	2.580	1.053	0.122	1.175
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	**0.511**	**4.182**	**14.143**	**0.021**	0.538	0.076	0.614	0.096	0.072	0.168
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	0.319	2.115	11.261	0.021	2.150	0.056	2.206	0.998	0.054	1.052
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	0.391	3.147	15.634	0.032	**2.643**	**0.079**	**2.722**	**1.079**	**0.077**	**1.156**
TPSS 3-Sunset Onramp-Concrete Work	6/1/2033	7/31/2033	5	43	10	0.555	3.430	13.927	0.024	0.715	0.124	0.839	0.150	0.116	0.267
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	2.264	4.161	14.096	0.021	0.538	0.071	0.609	0.096	0.067	0.163
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	0.636	3.927	21.641	0.035	2.452	0.128	2.580	1.053	0.122	1.175
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	**0.511**	**4.182**	**14.143**	**0.021**	0.538	0.076	0.614	0.096	0.072	0.168
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	0.319	2.115	11.261	0.021	2.150	0.056	2.206	0.998	0.054	1.052
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	0.398	3.516	15.716	0.035	**2.816**	**0.085**	**2.901**	**1.112**	**0.082**	**1.194**
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	0.555	3.430	13.927	0.024	0.715	0.124	0.839	0.150	0.116	0.267
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2.264	4.161	14.096	0.021	0.538	0.071	0.609	0.096	0.067	0.163
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	0.636	3.927	21.641	0.035	2.452	0.128	2.580	1.053	0.122	1.175
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	**0.511**	**4.182**	**14.143**	**0.021**	0.538	0.076	0.614	0.096	0.072	0.168
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	0.319	2.115	11.261	0.021	2.150	0.056	2.206	0.998	0.054	1.052
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	0.398	3.516	15.716	0.035	**2.816**	**0.085**	**2.901**	**1.112**	**0.082**	**1.194**
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	0.555	3.430	13.927	0.024	0.715	0.124	0.839	0.150	0.116	0.267
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2.264	4.161	14.096	0.021	0.538	0.071	0.609	0.096	0.067	0.163
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	0.636	3.927	21.641	0.035	2.452	0.128	2.580	1.053	0.122	1.175
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	**0.511**	**4.182**	**14.143**	**0.021**	0.538	0.076	0.614	0.096	0.072	0.168
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	0.319	2.115	11.261	0.021	2.150	0.056	2.206	0.998	0.054	1.052
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	0.427	4.990	16.047	0.047	**3.511**	**0.108**	**3.619**	**1.244**	**0.104**	**1.348**
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	0.555	3.430	13.927	0.024	0.715	0.124	0.839	0.150	0.116	0.267
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	1.438	4.161	14.096	0.021	0.538	0.071	0.609	0.096	0.067	0.163
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	0.636	3.927	21.641	0.035	2.452	0.128	2.580	1.053	0.122	1.175
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	**0.527**	**4.205**	**14.199**	**0.021**	0.538	0.082	0.620	0.096	0.078	0.174
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	0.508	4.530	14.178	0.024	0.746	0.077	0.822	0.134	0.073	0.207
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	1.004	9.726	40.058	0.102	**4.955**	**0.235**	**5.190**	**1.479**	**0.229**	**1.708**
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	0.614	7.288	22.060	0.065	3.455	0.132	3.587	0.544	0.127	0.672
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	6.323	4.161	14.096	0.021	0.538	0.071	0.609	0.096	0.067	0.163
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	3.686	3.740	19.269	0.032	2.400	0.118	2.518	1.040	0.113	1.152
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	**0.527**	**4.205**	**14.199**	**0.021**	0.538	0.082	0.620	0.096	0.078	0.174
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	0.515	4.898	14.261	0.027	1.046	0.082	1.128	0.187	0.078	0.265
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	0.967	7.883	39.645	0.087	**4.079**	**0.206**	**4.285**	**1.314**	**0.201**	**1.515**
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	0.531	4.026	20.959	0.038	0.559	0.097	0.656	0.111	0.094	0.205
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	3.256	4.135	14.052	0.021	0.538	0.067	0.605	0.096	0.063	0.160
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	1.228	3.720	19.222	0.032	2.400	0.115	2.514	1.040	0.110	1.149
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	0.835	6.233	23.298	0.038	0.932	0.157	1.088	0.173	0.148	0.321
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	0.834	6.233	23.298	0.038	0.931	0.157	1.088	0.173	0.148	0.321
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	0.835	6.233	23.298	0.038	0.932	0.157	1.088	0.173	0.148	0.321
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	0.834	6.233	23.298	0.038	0.931	0.157	1.088	0.173	0.148	0.321
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	0.570	4.268	14.349	0.022	0.538	0.097	0.635	0.096	0.091	0.187
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	1.475	16.951	46.721	0.151	14.559	0.379	14.938	5.044	0.364	5.408
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	3.016	23.006	132.169	0.288	20.477	0.650	21.128	8.487	0.637	9.125
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	**6.097**	**10.403**	**19.743**	**0.092**	5.042	0.201	5.244	0.915	0.193	1.108
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	0.554	4.674	14.224	0.025	0.764	0.103	0.867	0.134	0.097	0.231
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	0.933	5.727	38.873	0.069	2.918	0.188	3.106	1.084	0.183	1.267
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	3.124	9.012	57.921	0.113	2.099	0.259	2.358	0.419	0.253	0.672
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	0.547	4.255	14.073	0.021	0.505	0.090	0.594	0.088	0.085	0.173
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	0.861	3.982	21.322	0.035	2.314	0.141	2.455	1.018	0.134	1.152
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	**0.885**	**7.405**	**28.933**	**0.073**	**4.538**	**0.235**	**4.773**	**0.783**	**0.225**	**1.008**
					Maximum Daily Emissions[1]	31.70	202.06	776.40	1.49	43.21	4.77	47.98	12.27	4.56	16.82
					SCAQMD Regional Significance Thresholds[2]	75	100	550	150	n/a	n/a	150	n/a	n/a	55
					Threshold Exceeded?	No	Yes	Yes	No	--	--	No	--	--	No

Notes:
1. Maximum daily emissions are based on the sum of daily emissions from individual phases whose schedules overlap.
2. SCAQMD, Air Quality Significance Thresholds, April 2019.
3. Highlighted cells indicate phases that contribute to maximum daily emissions.

Sepulveda Transit Corridor Project - ALTERNATIVE 1

Maximum Regional (Offsite + Onsite) Daily Emissions per Construction Year

	Maximum Daily Emissions (lb/day)									
Construction Year	**ROG**	**NO_X**	**CO**	**SO_X**	**PM_{10} Fugitive**	**PM_{10} Exhaust**	**PM_{10} Total**	**$PM_{2.5}$ Fugitive**	**$PM_{2.5}$ Exhaust**	**$PM_{2.5}$ Total**
2029	12.20	86.15	318.60	0.50	13.63	2.07	15.71	3.03	1.96	4.98
2030	12.20	94.80	305.42	0.59	29.18	2.17	31.35	7.87	2.05	9.83
2031	13.73	111.77	418.73	0.79	37.66	2.53	40.20	11.54	2.42	13.96
2032	**31.70**	**202.06**	**776.40**	**1.49**	37.66	**5.52**	41.26	11.54	**5.25**	13.96
2033	25.04	157.04	678.98	1.38	**43.21**	4.77	**47.98**	**12.27**	4.56	**16.82**
2034	19.64	95.86	424.61	0.79	13.58	3.08	16.63	3.31	2.93	6.22
2035	12.82	70.61	308.37	0.58	9.02	2.25	11.27	2.33	2.14	3.98
2036	0.72	4.83	21.36	0.04	0.44	0.16	0.60	0.09	0.15	0.24
Maximum Daily Emissions	**31.70**	**202.06**	**776.40**	**1.49**	**43.21**	**5.52**	**47.98**	**12.27**	**5.25**	**16.82**
SCAQMD Regional Thresholds	75	100	550	150	n/a	n/a	150	n/a	n/a	55
Threshold Exceeded?	**No**	**Yes**	**Yes**	**No**	--	--	**No**	--	--	**No**

Notes:

1. Maximum daily emissions are based on the sum of daily emissions from individual phases whose schedules overlap.
2. SCAQMD, Air Quality Significance Thresholds, April 2019.
3. Highlighted cells indicate daily maximum emissions.

Sepulveda Transit Corridor Project - ALTERNATIVE 1

Total Regional (Offsite + Onsite) Emissions per Construction Phase

						Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	0.298	2.230	7.497	1.1E-02	0.281	0.051	0.332	0.050	0.048	0.098	1041.23	0.0394	0.0136	1046.27
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	0.186	1.761	4.755	1.0E-02	0.448	0.035	0.483	0.079	0.033	0.112	942.09	0.0248	0.0541	958.84
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2.337	16.705	72.726	1.4E-01	2.199	0.533	2.732	0.450	0.507	0.957	13254.12	0.4591	0.3471	13369.02
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	0.063	0.421	1.858	3.3E-03	0.039	0.014	0.052	0.008	0.013	0.021	313.69	0.0120	0.0033	314.97
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	0.009	0.059	0.269	4.8E-04	0.007	0.002	0.010	0.001	0.002	0.004	45.40	0.0017	0.0005	45.60
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	0.298	2.230	7.497	1.1E-02	0.281	0.051	0.332	0.050	0.048	0.098	1041.23	0.0394	0.0136	1046.27
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	0.181	1.512	4.700	8.0E-03	0.256	0.031	0.288	0.046	0.029	0.075	748.51	0.0246	0.0236	756.17
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH)	6/1/2032	3/31/2035	5	739	10	0.870	6.017	27.153	5.0E-02	0.712	0.196	0.908	0.148	0.186	0.334	4770.34	0.1715	0.1002	4804.48
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembly	4/1/2035	8/31/2035	5	110	10	0.040	0.266	1.175	2.1E-03	0.024	0.009	0.033	0.005	0.008	0.013	198.31	0.0076	0.0021	199.12
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	9/1/2035	10/31/2035	5	43	10	0.009	0.058	0.263	4.7E-04	0.007	0.002	0.009	0.001	0.002	0.003	44.39	0.0017	0.0005	44.59
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	0.298	2.230	7.497	1.1E-02	0.281	0.051	0.332	0.050	0.048	0.098	1041.23	0.0394	0.0136	1046.27
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	0.181	1.512	4.700	8.0E-03	0.237	0.031	0.269	0.043	0.029	0.072	748.51	0.0246	0.0236	756.17
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	0.096	0.728	2.962	6.1E-03	0.128	0.022	0.150	0.025	0.021	0.046	575.23	0.0186	0.0199	581.62
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	0.048	0.321	1.415	2.5E-03	0.029	0.011	0.040	0.006	0.010	0.016	238.24	0.0092	0.0025	239.23
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	9/1/2033	10/31/2035	5	565	10	0.120	0.759	3.470	6.2E-03	0.096	0.028	0.124	0.019	0.027	0.046	584.15	0.0221	0.0070	586.78
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	0.298	2.230	7.497	1.1E-02	0.281	0.051	0.332	0.050	0.048	0.098	1041.23	0.0394	0.0136	1046.27
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	0.181	1.512	4.700	8.0E-03	0.247	0.031	0.279	0.044	0.029	0.074	748.51	0.0246	0.0236	756.17
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	8/1/2032	5/31/2033	5	217	10	0.175	1.393	5.377	1.2E-02	0.270	0.041	0.311	0.051	0.039	0.090	1100.82	0.0338	0.0457	1115.28
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	0.048	0.318	1.404	2.5E-03	0.029	0.011	0.040	0.006	0.010	0.016	236.44	0.0091	0.0025	237.42
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	0.009	0.059	0.270	4.9E-04	0.007	0.002	0.010	0.001	0.002	0.004	45.49	0.0017	0.0005	45.70
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	0.186	1.389	4.671	7.0E-03	0.175	0.031	0.207	0.031	0.030	0.061	648.65	0.0245	0.0085	651.79
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	0.053	0.451	1.407	2.4E-03	0.072	0.009	0.081	0.013	0.008	0.021	224.45	0.0074	0.0070	226.72
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	0.095	0.665	2.934	5.5E-03	0.093	0.021	0.115	0.019	0.020	0.039	526.07	0.0185	0.0125	530.24
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	0.008	0.056	0.247	4.4E-04	0.005	0.002	0.007	0.001	0.002	0.003	41.51	0.0016	0.0004	41.68
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	0.106	0.671	3.065	5.5E-03	0.085	0.025	0.109	0.017	0.023	0.040	515.91	0.0195	0.0062	518.24
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	0.186	1.389	4.671	7.0E-03	0.175	0.031	0.207	0.031	0.030	0.061	648.65	0.0245	0.0085	651.79
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	0.053	0.451	1.407	2.4E-03	0.071	0.009	0.080	0.013	0.008	0.021	224.45	0.0074	0.0070	226.72
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	0.078	0.550	2.429	4.6E-03	0.077	0.018	0.095	0.015	0.017	0.032	435.44	0.0153	0.0103	438.90
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	0.023	0.155	0.686	1.2E-03	0.014	0.005	0.019	0.003	0.005	0.008	115.51	0.0044	0.0012	115.99
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	0.087	0.555	2.536	4.6E-03	0.070	0.020	0.091	0.014	0.019	0.033	426.99	0.0162	0.0051	428.92
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	0.186	1.389	4.671	7.0E-03	0.175	0.031	0.207	0.031	0.030	0.061	648.65	0.0245	0.0085	651.79
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	0.053	0.451	1.407	2.4E-03	0.071	0.009	0.080	0.013	0.008	0.021	224.45	0.0074	0.0070	226.72
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	0.200	1.402	6.189	1.2E-02	0.197	0.045	0.242	0.039	0.043	0.082	1109.61	0.0390	0.0263	1118.41
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	0.031	0.206	0.909	1.6E-03	0.019	0.007	0.026	0.004	0.006	0.010	153.32	0.0059	0.0016	153.95
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	0.078	0.496	2.267	4.1E-03	0.063	0.018	0.081	0.012	0.017	0.030	382.25	0.0145	0.0045	383.96
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	0.186	1.389	4.671	7.0E-03	0.175	0.031	0.207	0.031	0.030	0.061	648.65	0.0245	0.0085	651.79
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	0.053	0.451	1.407	2.4E-03	0.071	0.009	0.080	0.013	0.008	0.021	224.45	0.0074	0.0070	226.72
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	0.112	0.788	3.476	6.6E-03	0.111	0.025	0.136	0.022	0.024	0.046	623.33	0.0219	0.0148	628.27
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	0.040	0.267	1.179	2.1E-03	0.024	0.009	0.033	0.005	0.008	0.014	198.54	0.0076	0.0021	199.36
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	0.069	0.437	1.996	3.6E-03	0.055	0.016	0.071	0.011	0.015	0.026	336.01	0.0127	0.0040	337.53
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	0.186	1.389	4.671	7.0E-03	0.175	0.031	0.207	0.031	0.030	0.061	648.65	0.0245	0.0085	651.79
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	0.053	0.451	1.407	2.4E-03	0.071	0.009	0.080	0.013	0.008	0.021	224.45	0.0074	0.0070	226.72
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	0.078	0.550	2.429	4.6E-03	0.077	0.018	0.095	0.015	0.017	0.032	435.44	0.0153	0.0103	438.90
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	0.039	0.260	1.147	2.0E-03	0.024	0.009	0.032	0.005	0.008	0.013	193.12	0.0074	0.0021	193.92
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	0.055	0.351	1.603	2.9E-03	0.044	0.013	0.057	0.009	0.012	0.021	269.84	0.0102	0.0032	271.06
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	0.186	1.389	4.671	7.0E-03	0.175	0.031	0.207	0.031	0.030	0.061	648.65	0.0245	0.0085	651.79
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	0.053	0.451	1.407	2.4E-03	0.071	0.009	0.080	0.013	0.008	0.021	224.45	0.0074	0.0070	226.72
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	0.035	0.243	1.073	2.0E-03	0.034	0.008	0.042	0.007	0.007	0.014	192.30	0.0068	0.0046	193.83
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	0.024	0.158	0.698	1.2E-03	0.014	0.005	0.020	0.003	0.005	0.008	117.40	0.0045	0.0013	117.88
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	11/1/2032	12/31/2034	5	565	10	0.120	0.761	3.479	6.2E-03	0.096	0.028	0.124	0.019	0.027	0.046	584.63	0.0222	0.0071	587.29
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	0.186	1.389	4.671	7.0E-03	0.175	0.031	0.207	0.031	0.030	0.061	648.65	0.0245	0.0085	651.79
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	0.053	0.451	1.407	2.4E-03	0.071	0.009	0.080	0.013	0.008	0.021	224.45	0.0074	0.0070	226.72
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	0.078	0.550	2.429	4.6E-03	0.077	0.018	0.095	0.015	0.017	0.032	435.44	0.0153	0.0103	438.90
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	0.047	0.313	1.383	2.5E-03	0.029	0.010	0.039	0.006	0.010	0.016	232.83	0.0090	0.0025	233.79
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	0.069	0.438	2.002	3.6E-03	0.055	0.016	0.071	0.011	0.015	0.026	337.05	0.0128	0.0040	338.57
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	0.186	1.389	4.671	7.0E-03	0.175	0.031	0.207	0.031	0.030	0.061	648.65	0.0245	0.0085	651.79
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	0.053	0.451	1.407	2.4E-03	0.071	0.009	0.080	0.013	0.008	0.021	224.45	0.0074	0.0070	226.72
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	0.095	0.665	2.934	5.5E-03	0.093	0.021	0.115	0.019	0.020	0.039	526.07	0.0185	0.0125	530.24
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	0.024	0.160	0.708	1.3E-03	0.015	0.005	0.020	0.003	0.005	0.008	119.12	0.0046	0.0013	119.61
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	0.101	0.643	2.936	5.3E-03	0.081	0.024	0.105	0.016	0.022	0.039	494.20	0.0187	0.0059	496.43

Sepulveda Transit Corridor Project - ALTERNATIVE 1

Total Regional (Offsite + Onsite) Emissions per Construction Phase

						Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Hours per Workday**	**ROG**	**NO_X**	**CO**	**SO_X**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**	**CO_2**	**CH_4**	**N_2O**	**CO_2e**
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	0.045	0.366	1.237	1.9E-03	0.047	0.007	0.054	0.008	0.006	0.015	173.71	0.0065	0.0022	174.52
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	0.010	0.068	0.360	6.6E-04	0.069	0.002	0.071	0.032	0.002	0.034	64.03	0.0024	0.0008	64.32
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	0.009	0.076	0.338	7.5E-04	0.061	0.002	0.062	0.024	0.002	0.026	73.13	0.0021	0.0035	74.22
TPSS 2-Wilshire Blvd-Concrete Work	6/1/2033	7/31/2033	5	43	10	0.012	0.074	0.299	5.3E-04	0.015	0.003	0.018	0.003	0.003	0.006	47.92	0.0016	0.0010	48.24
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	0.026	0.048	0.162	2.5E-04	0.006	0.001	0.007	0.001	0.001	0.002	22.81	0.0008	0.0003	22.91
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	0.007	0.043	0.238	3.9E-04	0.027	0.001	0.028	0.012	0.001	0.013	37.85	0.0014	0.0004	38.01
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	0.045	0.366	1.237	1.9E-03	0.047	0.007	0.054	0.008	0.006	0.015	173.71	0.0065	0.0022	174.52
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	0.010	0.068	0.360	6.6E-04	0.069	0.002	0.071	0.032	0.002	0.034	64.03	0.0024	0.0008	64.32
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	0.008	0.068	0.336	6.9E-04	0.057	0.002	0.059	0.023	0.002	0.025	67.02	0.0021	0.0025	67.83
TPSS 3-Sunset Onramp-Concrete Work	6/1/2033	7/31/2033	5	43	10	0.012	0.074	0.299	5.3E-04	0.015	0.003	0.018	0.003	0.003	0.006	47.92	0.0016	0.0010	48.24
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	0.026	0.048	0.162	2.5E-04	0.006	0.001	0.007	0.001	0.001	0.002	22.81	0.0008	0.0003	22.91
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	0.007	0.043	0.238	3.9E-04	0.027	0.001	0.028	0.012	0.001	0.013	37.85	0.0014	0.0004	38.01
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	0.045	0.366	1.237	1.9E-03	0.047	0.007	0.054	0.008	0.006	0.015	173.71	0.0065	0.0022	174.52
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	0.010	0.068	0.360	6.6E-04	0.069	0.002	0.071	0.032	0.002	0.034	64.03	0.0024	0.0008	64.32
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	0.009	0.076	0.338	7.5E-04	0.061	0.002	0.062	0.024	0.002	0.026	73.13	0.0021	0.0035	74.22
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	0.012	0.074	0.299	5.3E-04	0.015	0.003	0.018	0.003	0.003	0.006	47.92	0.0016	0.0010	48.24
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	0.026	0.048	0.162	2.5E-04	0.006	0.001	0.007	0.001	0.001	0.002	22.81	0.0008	0.0003	22.91
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	0.007	0.043	0.238	3.9E-04	0.027	0.001	0.028	0.012	0.001	0.013	37.85	0.0014	0.0004	38.01
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	0.045	0.366	1.237	1.9E-03	0.047	0.007	0.054	0.008	0.006	0.015	173.71	0.0065	0.0022	174.52
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	0.010	0.068	0.360	6.6E-04	0.069	0.002	0.071	0.032	0.002	0.034	64.03	0.0024	0.0008	64.32
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	0.009	0.076	0.338	7.5E-04	0.061	0.002	0.062	0.024	0.002	0.026	73.13	0.0021	0.0035	74.22
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	0.012	0.074	0.299	5.3E-04	0.015	0.003	0.018	0.003	0.003	0.006	47.92	0.0016	0.0010	48.24
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	0.026	0.048	0.162	2.5E-04	0.006	0.001	0.007	0.001	0.001	0.002	22.81	0.0008	0.0003	22.91
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	0.007	0.043	0.238	3.9E-04	0.027	0.001	0.028	0.012	0.001	0.013	37.85	0.0014	0.0004	38.01
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	0.045	0.366	1.237	1.9E-03	0.047	0.007	0.054	0.008	0.006	0.015	173.71	0.0065	0.0022	174.52
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	0.010	0.068	0.360	6.6E-04	0.069	0.002	0.071	0.032	0.002	0.034	64.03	0.0024	0.0008	64.32
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	0.009	0.107	0.345	1.0E-03	0.075	0.002	0.078	0.027	0.002	0.029	97.56	0.0022	0.0074	99.80
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	0.012	0.074	0.299	5.3E-04	0.015	0.003	0.018	0.003	0.003	0.006	47.92	0.0016	0.0010	48.24
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	0.017	0.048	0.162	2.5E-04	0.006	0.001	0.007	0.001	0.001	0.002	22.81	0.0008	0.0003	22.91
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	0.007	0.043	0.238	3.9E-04	0.027	0.001	0.028	0.012	0.001	0.013	37.85	0.0014	0.0004	38.01
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	0.104	0.828	2.797	4.2E-03	0.106	0.016	0.122	0.019	0.015	0.034	391.49	0.0147	0.0050	393.34
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	0.016	0.145	0.454	7.8E-04	0.024	0.002	0.026	0.004	0.002	0.007	72.56	0.0024	0.0022	73.28
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	0.033	0.316	1.302	3.3E-03	0.161	0.008	0.169	0.048	0.007	0.056	322.10	0.0088	0.0181	327.72
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	0.013	0.160	0.485	1.4E-03	0.076	0.003	0.079	0.012	0.003	0.015	137.90	0.0031	0.0102	141.03
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	0.408	0.268	0.909	1.4E-03	0.035	0.005	0.039	0.006	0.004	0.011	127.92	0.0048	0.0016	128.51
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	0.079	0.080	0.414	6.9E-04	0.052	0.003	0.054	0.022	0.002	0.025	66.92	0.0025	0.0007	67.20
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	0.104	0.828	2.797	4.2E-03	0.106	0.016	0.122	0.019	0.015	0.034	391.49	0.0147	0.0050	393.34
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	0.016	0.157	0.456	8.7E-04	0.033	0.003	0.036	0.006	0.003	0.008	81.65	0.0024	0.0037	82.80
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	0.031	0.256	1.288	2.8E-03	0.133	0.007	0.139	0.043	0.007	0.049	275.93	0.0087	0.0108	279.38
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	0.081	0.614	3.196	5.8E-03	0.085	0.015	0.100	0.017	0.014	0.031	558.40	0.0209	0.0083	561.40
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	0.246	0.312	1.061	1.6E-03	0.041	0.005	0.046	0.007	0.005	0.012	149.58	0.0056	0.0018	150.27
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	0.027	0.082	0.423	7.1E-04	0.053	0.003	0.055	0.023	0.002	0.025	68.44	0.0026	0.0007	68.72
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	0.046	0.343	1.281	2.1E-03	0.051	0.009	0.060	0.010	0.008	0.018	197.24	0.0067	0.0056	199.07
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	0.064	0.480	1.794	2.9E-03	0.072	0.012	0.084	0.013	0.011	0.025	276.14	0.0094	0.0078	278.70
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	0.046	0.343	1.281	2.1E-03	0.051	0.009	0.060	0.010	0.008	0.018	197.24	0.0067	0.0056	199.07
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	0.064	0.480	1.794	2.9E-03	0.072	0.012	0.084	0.013	0.011	0.025	276.14	0.0094	0.0078	278.70
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	0.111	0.832	2.798	4.2E-03	0.105	0.019	0.124	0.019	0.018	0.037	388.59	0.0147	0.0051	390.47
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	0.161	1.848	5.093	1.6E-02	1.587	0.041	1.628	0.550	0.040	0.589	1587.51	0.0337	0.1253	1625.68
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	0.297	2.266	13.019	2.8E-02	2.017	0.064	2.081	0.836	0.063	0.899	2766.95	0.0899	0.1015	2799.44
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	0.732	1.248	2.369	1.1E-02	0.605	0.024	0.629	0.110	0.023	0.133	1060.34	0.0122	0.1222	1097.05
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	0.036	0.304	0.925	1.6E-03	0.050	0.007	0.056	0.009	0.006	0.015	148.98	0.0048	0.0051	150.63
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	0.051	0.315	2.138	3.8E-03	0.160	0.010	0.171	0.060	0.010	0.070	368.60	0.0146	0.0038	370.11
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	0.167	0.482	3.099	6.0E-03	0.112	0.014	0.126	0.022	0.014	0.036	586.22	0.0208	0.0130	590.60
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	0.012	0.091	0.303	4.6E-04	0.011	0.002	0.013	0.002	0.002	0.004	42.77	0.0016	0.0007	43.01
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	0.028	0.131	0.704	1.1E-03	0.076	0.005	0.081	0.034	0.004	0.038	110.69	0.0042	0.0014	111.21
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	0.346	2.895	11.313	2.9E-02	1.774	0.092	1.866	0.306	0.088	0.394	2733.21	0.0785	0.1387	2776.50
					Total	**13.20**	**87.89**	**343.21**	**0.64**	**18.07**	**2.39**	**20.46**	**4.40**	**2.27**	**6.67**	**60046.49**	**2.06**	**1.64**	**60587.82**

TBM Electricity Consumption	-
Portable Office Electricity Consumption	65.5
Alternative Total	**60,653.3**
30 - Year Amortization	**2,021.8**

Notes:

1. Global warming potentials based on IPCC AR4, consistent with CARB emission inventory methods.
2. Alternative 1 would not include tunneling, therefore a tunnel boring machine was not required.

Sepulveda Transit Corridor Project - ALTERNATIVE 1

Regional (Offsite + Onsite) Emissions by Construction Year

		Annual Emissions (tons per year)										Annual Emissions (metric tons)			
Year	Construction Year	ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
2029	Year 1	1.288	9.457	33.629	0.052	1.369	0.222	1.591	0.278	0.209	0.487	4877.69	0.181	0.080	4906.08
2030	Year 2	1.415	10.505	35.889	0.063	2.524	0.243	2.766	0.633	0.230	0.862	5940.96	0.199	0.178	5998.87
2031	Year 3	1.676	13.622	49.173	0.093	4.495	0.313	4.808	1.328	0.298	1.626	8800.61	0.286	0.304	8898.23
2032	Year 4	3.412	21.608	80.946	0.156	4.175	0.568	4.743	0.830	0.540	1.369	14702.43	0.481	0.488	14859.85
2033	Year 5	2.661	16.561	72.047	0.138	3.386	0.516	3.902	0.881	0.492	1.372	13129.69	0.456	0.333	13240.37
2034	Year 6	1.888	10.917	48.572	0.090	1.430	0.356	1.786	0.302	0.339	0.641	8544.52	0.307	0.177	8604.81
2035	Year 7	0.823	5.003	21.995	0.041	0.668	0.162	0.830	0.148	0.154	0.302	3888.00	0.139	0.083	3916.35
2036	Year 8	0.033	0.216	0.963	0.002	0.022	0.007	0.029	0.005	0.007	0.011	162.58	0.006	0.002	163.26
Totals		**13.20**	**87.89**	**343.21**	**0.64**	**18.07**	**2.39**	**20.46**	**4.40**	**2.27**	**6.67**	**60046.49**	**2.06**	**1.64**	**60587.82**
												TBM Electricity Consumption			0.0
												Portable Office Electricity Consumption			65.5
												Alternative Total			**60,653.3**
												30 - Year Amortization			**2,021.8**

*TBM would not be required for Alternative 1.

Sepulveda Transit Corridor Project - ALTERNATIVE 1

Schedule/Phasing[1]						Construction Materials[1]						Worker Trips[2,3]			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Workday Duration (Hours per day)[7]	Total Demo Debris (tons)	Excavation Quantity (CY)	Soil Movement Quantity (CY)	Concrete Quantity (CY)	Paving Area (SF)	Building Area (SF)	Trip Type	Workers per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	-	-	-	-	-	-	Worker	10	20	18.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	14816	-	-	-	-	-	Worker	10	20	18.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	-	124084	124084	174827	-	-	Worker	88	176	18.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	-	-	-	-	-	-	Worker	12	24	18.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	-	-	-	-	-	-	Worker	8	16	18.5
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	-	-	-	-	-	-	Worker	10	20	18.5
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	3428	-	-	-	-	-	Worker	10	20	18.5
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH	6/1/2032	3/31/2035	5	739	10	-	28708	28708	40448	-	-	Worker	38	76	18.5
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembl	4/1/2035	8/31/2035	5	110	10	-	-	-	-	-	-	Worker	12	24	18.5
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	9/1/2035	10/31/2035	5	43	10	-	-	-	-	-	-	Worker	8	16	18.5
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	-	-	-	-	-	-	Worker	10	20	18.5
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	686	-	-	-	-	-	Worker	10	20	18.5
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	-	5749	5749	8100	-	-	Worker	14	28	18.5
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	-	-	-	-	-	-	Worker	12	24	18.5
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	9/1/2033	10/31/2035	5	565	10	-	-	-	-	-	-	Worker	8	16	18.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	-	-	-	-	-	-	Worker	10	20	18.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2139	-	-	-	-	-	Worker	10	20	18.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	-	17918	17918	25246	-	-	Worker	26	52	18.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	-	-	-	-	-	-	Worker	12	24	18.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	-	-	-	-	-	-	Worker	8	16	18.5
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	-	-	-	-	-	-	Worker	10	20	18.5
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	273	-	-	-	-	-	Worker	10	20	18.5
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	-	580	580	879	-	-	Worker	14	28	18.5
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	-	-	-	-	-	-	Worker	12	24	18.5
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	-	-	-	-	-	-	Worker	8	16	18.5
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	-	-	-	-	-	-	Worker	10	20	18.5
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	135	-	-	-	-	-	Worker	10	20	18.5
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	-	600	600	785	-	-	Worker	14	28	18.5
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	-	-	-	-	-	-	Worker	12	24	18.5
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	-	-	-	-	-	-	Worker	8	16	18.5
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	-	-	-	-	-	-	Worker	10	20	18.5
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	196	-	-	-	-	-	Worker	10	20	18.5
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	-	630	630	828	-	-	Worker	14	28	18.5
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	-	-	-	-	-	-	Worker	12	24	18.5
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	-	-	-	-	-	-	Worker	8	16	18.5
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	-	-	-	-	-	-	Worker	10	20	18.5
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	133	-	-	-	-	-	Worker	10	20	18.5
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	-	580	580	785	-	-	Worker	14	28	18.5
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	-	-	-	-	-	-	Worker	12	24	18.5
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	-	-	-	-	-	-	Worker	8	16	18.5
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	-	-	-	-	-	-	Worker	10	20	18.5
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	153	-	-	-	-	-	Worker	10	20	18.5
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	-	590	590	800	-	-	Worker	14	28	18.5
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	-	-	-	-	-	-	Worker	12	24	18.5
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	-	-	-	-	-	-	Worker	8	16	18.5
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	-	-	-	-	-	-	Worker	10	20	18.5
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	215	-	-	-	-	-	Worker	10	20	18.5
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	-	630	630	841	-	-	Worker	14	28	18.5
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	-	-	-	-	-	-	Worker	12	24	18.5
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	11/1/2032	12/31/2034	5	565	10	-	-	-	-	-	-	Worker	8	16	18.5
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	-	-	-	-	-	-	Worker	10	20	18.5
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	185	-	-	-	-	-	Worker	10	20	18.5
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	-	595	595	820	-	-	Worker	14	28	18.5
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	-	-	-	-	-	-	Worker	12	24	18.5
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	-	-	-	-	-	-	Worker	8	16	18.5

Sepulveda Transit Corridor Project - ALTERNATIVE 1

Schedule/Phasing[1]						Material/Soil Haul Trucks[5]				Precast Concrete Structures Haul Trucks[5]			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Workday Duration (Hours per day)[7]	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Haul	-	-	25.0	Haul	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Haul	6	12	25.0	Haul	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	Haul	16	32	25.0	Haul	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	Haul	-	-	25.0	Haul	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	Haul	-	-	25.0	Haul	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Haul	-	-	25.0	Haul	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Haul	2	4	25.0	Haul	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH	6/1/2032	3/31/2035	5	739	10	Haul	4	8	25.0	Haul	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembl	4/1/2035	8/31/2035	5	110	10	Haul	-	-	25.0	Haul	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	9/1/2035	10/31/2035	5	43	10	Haul	-	-	25.0	Haul	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Haul	-	-	25.0	Haul	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Haul	2	4	25.0	Haul	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	Haul	4	8	25.0	Haul	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	Haul	-	-	25.0	Haul	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	9/1/2033	10/31/2035	5	565	10	Haul	-	-	25.0	Haul	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Haul	-	-	25.0	Haul	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Haul	2	4	25.0	Haul	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	Haul	10	20	25.0	Haul	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	Haul	-	-	25.0	Haul	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	Haul	-	-	25.0	Haul	-	-	-
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Haul	-	-	25.0	Haul	-	-	-
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Haul	2	4	25.0	Haul	-	-	-
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Haul	2	4	25.0	Haul	-	-	-
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	Haul	-	-	25.0	Haul	-	-	-
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	Haul	-	-	25.0	Haul	-	-	-
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Haul	-	-	25.0	Haul	-	-	-
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Haul	2	4	25.0	Haul	-	-	-
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Haul	2	4	25.0	Haul	-	-	-
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	Haul	-	-	25.0	Haul	-	-	-
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	Haul	-	-	25.0	Haul	-	-	-
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Haul	-	-	25.0	Haul	-	-	-
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Haul	2	4	25.0	Haul	-	-	-
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	Haul	2	4	25.0	Haul	-	-	-
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	Haul	-	-	25.0	Haul	-	-	-
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	Haul	-	-	25.0	Haul	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Haul	-	-	25.0	Haul	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Haul	2	4	25.0	Haul	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	Haul	2	4	25.0	Haul	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	Haul	-	-	25.0	Haul	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	Haul	-	-	25.0	Haul	-	-	-
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Haul	-	-	25.0	Haul	-	-	-
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Haul	2	4	25.0	Haul	-	-	-
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Haul	2	4	25.0	Haul	-	-	-
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	Haul	-	-	25.0	Haul	-	-	-
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	Haul	-	-	25.0	Haul	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Haul	-	-	25.0	Haul	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Haul	2	4	25.0	Haul	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	Haul	2	4	25.0	Haul	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	Haul	-	-	25.0	Haul	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	11/1/2032	12/31/2034	5	565	10	Haul	-	-	25.0	Haul	-	-	-
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Haul	-	-	25.0	Haul	-	-	-
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Haul	2	4	25.0	Haul	-	-	-
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Haul	2	4	25.0	Haul	-	-	-
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	Haul	-	-	25.0	Haul	-	-	-
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	Haul	-	-	25.0	Haul	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 1

Schedule/Phasing[1] | Concrete Truck Deliveries[4] | Water Trucks[6]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Workday Duration (Hours per day)[7]	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Concrete	-	-	10.2	Water	3	6	2.0
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Concrete	-	-	10.2	Water	3	6	2.0
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	Concrete	24	48	10.2	Water	3	6	2.0
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	Concrete	-	-	10.2	Water	3	6	2.0
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	Concrete	-	-	10.2	Water	3	6	2.0
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Concrete	-	-	10.2	Water	3	6	2.0
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Concrete	-	-	10.2	Water	3	6	2.0
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH	6/1/2032	3/31/2035	5	739	10	Concrete	8	16	10.2	Water	3	6	2.0
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembl	4/1/2035	8/31/2035	5	110	10	Concrete	-	-	10.2	Water	3	6	2.0
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	9/1/2035	10/31/2035	5	43	10	Concrete	-	-	10.2	Water	3	6	2.0
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Concrete	-	-	10.2	Water	3	6	2.0
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Concrete	-	-	10.2	Water	3	6	2.0
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	Concrete	4	8	10.2	Water	3	6	2.0
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	Concrete	-	-	10.2	Water	3	6	2.0
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	9/1/2033	10/31/2035	5	565	10	Concrete	-	-	10.2	Water	3	6	2.0
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Concrete	-	-	10.2	Water	3	6	2.0
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Concrete	-	-	10.2	Water	3	6	2.0
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	Concrete	14	28	10.2	Water	3	6	2.0
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	Concrete	-	-	10.2	Water	3	6	2.0
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	Concrete	-	-	10.2	Water	3	6	2.0
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Concrete	-	-	10.2	Water	3	6	2.0
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Concrete	-	-	10.2	Water	3	6	2.0
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Concrete	2	4	10.2	Water	3	6	2.0
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	Concrete	-	-	10.2	Water	3	6	2.0
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	Concrete	-	-	10.2	Water	3	6	2.0
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Concrete	-	-	10.2	Water	3	6	2.0
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Concrete	-	-	10.2	Water	3	6	2.0
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Concrete	2	4	10.2	Water	3	6	2.0
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	Concrete	-	-	10.2	Water	3	6	2.0
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	Concrete	-	-	10.2	Water	3	6	2.0
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Concrete	-	-	10.2	Water	3	6	2.0
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Concrete	-	-	10.2	Water	3	6	2.0
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	Concrete	2	4	10.2	Water	3	6	2.0
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	Concrete	-	-	10.2	Water	3	6	2.0
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	Concrete	-	-	10.2	Water	3	6	2.0
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Concrete	-	-	10.2	Water	3	6	2.0
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Concrete	-	-	10.2	Water	3	6	2.0
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	Concrete	2	4	10.2	Water	3	6	2.0
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	Concrete	-	-	10.2	Water	3	6	2.0
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	Concrete	-	-	10.2	Water	3	6	2.0
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Concrete	-	-	10.2	Water	3	6	2.0
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Concrete	-	-	10.2	Water	3	6	2.0
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Concrete	2	4	10.2	Water	3	6	2.0
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	Concrete	-	-	10.2	Water	3	6	2.0
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	Concrete	-	-	10.2	Water	3	6	2.0
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Concrete	-	-	10.2	Water	3	6	2.0
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Concrete	-	-	10.2	Water	3	6	2.0
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	Concrete	2	4	10.2	Water	3	6	2.0
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	Concrete	-	-	10.2	Water	3	6	2.0
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	11/1/2032	12/31/2034	5	565	10	Concrete	-	-	10.2	Water	3	6	2.0
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Concrete	-	-	10.2	Water	3	6	2.0
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Concrete	-	-	10.2	Water	3	6	2.0
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Concrete	2	4	10.2	Water	3	6	2.0
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	Concrete	-	-	10.2	Water	3	6	2.0
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	Concrete	-	-	10.2	Water	3	6	2.0

Sepulveda Transit Corridor Project - ALTERNATIVE 1

Schedule/Phasing[1] | Construction Materials[1] | Worker Trips[2,3]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Workday Duration (Hours per day)[7]	Total Demo Debris (tons)	Excavation Quantity (CY)	Soil Movement Quantity (CY)	Concrete Quantity (CY)	Paving Area (SF)	Building Area (SF)	Trip Type	Workers per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	-	-	-	-	-	-	Worker	10	20	18.5
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	193	-	-	-	-	-	Worker	10	20	18.5
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	-	580	580	825	-	-	Worker	14	28	18.5
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	-	-	-	-	-	-	Worker	12	24	18.5
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	-	-	-	-	-	-	Worker	8	16	18.5
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	-	-	-	-	-	-	Worker	10	20	18.5
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	-	-	-	-	-	-	Worker	8	16	18.5
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	-	1763	1763	-	-	-	Worker	8	16	18.5
TPSS 2-Wilshire Blvd-Concrete Work	6/1/2033	7/31/2033	5	43	10	-	-	-	243	-	-	Worker	18	36	18.5
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	-	-	-	-	-	4375	Worker	10	20	18.5
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	-	-	-	-	-	-	Worker	14	28	18.5
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	-	-	-	-	-	-	Worker	10	20	18.5
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	-	-	-	-	-	-	Worker	8	16	18.5
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	-	1686	1686	-	-	-	Worker	8	16	18.5
TPSS 3-Sunset Onramp-Concrete Work	6/1/2033	7/31/2033	5	43	10	-	-	-	243	-	-	Worker	18	36	18.5
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	-	-	-	-	-	4375	Worker	10	20	18.5
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	-	-	-	-	-	-	Worker	14	28	18.5
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	-	-	-	-	-	-	Worker	10	20	18.5
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	-	-	-	-	-	-	Worker	8	16	18.5
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	-	1763	1763	-	-	-	Worker	8	16	18.5
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	-	-	-	243	-	-	Worker	18	36	18.5
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	-	-	-	-	-	4375	Worker	10	20	18.5
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	-	-	-	-	-	-	Worker	14	28	18.5
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	-	-	-	-	-	-	Worker	10	20	18.5
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	-	-	-	-	-	-	Worker	8	16	18.5
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	-	1763	1763	-	-	-	Worker	8	16	18.5
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	-	-	-	243	-	-	Worker	18	36	18.5
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	-	-	-	-	-	4375	Worker	10	20	18.5
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	-	-	-	-	-	-	Worker	14	28	18.5
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	-	-	-	-	-	-	Worker	10	20	18.5
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	-	-	-	-	-	-	Worker	8	16	18.5
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	-	5333	5333	-	-	-	Worker	8	16	18.5
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	-	-	-	129	-	-	Worker	18	36	18.5
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	-	-	-	-	-	2325	Worker	10	20	18.5
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	-	-	-	-	-	-	Worker	14	28	18.5
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	-	-	-	-	-	-	Worker	10	20	18.5
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	163	-	-	-	-	-	Worker	10	20	18.5
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	-	27818	27818	-	-	-	Worker	14	28	18.5
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	-	-	-	20200	-	-	Worker	12	24	18.5
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	-	-	-	-	-	81000	Worker	10	20	18.5
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	-	-	-	-	395000	-	Worker	12	24	18.5
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	-	-	-	-	-	-	Worker	10	20	18.5
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	750	-	-	-	-	-	Worker	10	20	18.5
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	-	7400	7400	-	-	-	Worker	14	28	18.5
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	-	-	-	3370	-	-	Worker	12	24	18.5
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	-	-	-	-	-	45000	Worker	10	20	18.5
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	-	-	-	-	85680	-	Worker	12	24	18.5
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	13	550	550	25	1000	-	Worker	14	28	18.5
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	13	570	570	25	1000	-	Worker	14	28	18.5
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	13	540	540	25	1000	-	Worker	14	28	18.5
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	13	600	600	25	1000	-	Worker	14	28	18.5
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	-	-	-	-	-	-	Worker	10	20	18.5
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	40000	-	-	-	-	-	Worker	26	52	18.5
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	-	70000	70000	-	-	-	Worker	38	76	18.5
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	-	-	-	60000	3888000	-	Worker	18	36	18.5

Sepulveda Transit Corridor Project - ALTERNATIVE 1

Schedule/Phasing[1]						Material/Soil Haul Trucks[5]				Precast Concrete Structures Haul Trucks[5]			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Workday Duration (Hours per day)[7]	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Haul	-	-	25.0	Haul	-	-	-
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Haul	2	4	25.0	Haul	-	-	-
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Haul	2	4	25.0	Haul	-	-	-
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	Haul	-	-	25.0	Haul	-	-	-
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	Haul	-	-	25.0	Haul	-	-	-
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Haul	-	-	25.0	Haul	-	-	-
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Haul	-	-	25.0	Haul	-	-	-
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Haul	6	12	25.0	Haul	-	-	-
TPSS 2-Wilshire Blvd-Concrete Work	6/1/2033	7/31/2033	5	43	10	Haul	-	-	25.0	Haul	-	-	-
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	Haul	-	-	25.0	Haul	-	-	-
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	Haul	-	-	25.0	Haul	-	-	-
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Haul	-	-	25.0	Haul	-	-	-
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Haul	-	-	25.0	Haul	-	-	-
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Haul	4	8	25.0	Haul	-	-	-
TPSS 3-Sunset Onramp-Concrete Work	6/1/2033	7/31/2033	5	43	10	Haul	-	-	25.0	Haul	-	-	-
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	Haul	-	-	25.0	Haul	-	-	-
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	Haul	-	-	25.0	Haul	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Haul	-	-	25.0	Haul	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Haul	-	-	25.0	Haul	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Haul	6	12	25.0	Haul	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	Haul	-	-	25.0	Haul	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	Haul	-	-	25.0	Haul	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	Haul	-	-	25.0	Haul	-	-	-
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Haul	-	-	25.0	Haul	-	-	-
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Haul	-	-	25.0	Haul	-	-	-
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Haul	6	12	25.0	Haul	-	-	-
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	Haul	-	-	25.0	Haul	-	-	-
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	Haul	-	-	25.0	Haul	-	-	-
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	Haul	-	-	25.0	Haul	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Haul	-	-	25.0	Haul	-	-	-
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Haul	-	-	25.0	Haul	-	-	-
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Haul	14	28	25.0	Haul	-	-	-
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	Haul	-	-	25.0	Haul	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	Haul	-	-	25.0	Haul	-	-	-
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	Haul	-	-	25.0	Haul	-	-	-
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	Haul	-	-	25.0	Haul	-	-	-
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Haul	2	4	25.0	Haul	-	-	-
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	Haul	22	44	25.0	Haul	-	-	-
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	Haul	-	-	25.0	Haul	-	-	-
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	Haul	-	-	25.0	Haul	-	-	-
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	Haul	-	-	25.0	Haul	-	-	-
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	Haul	-	-	25.0	Haul	-	-	-
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Haul	4	8	25.0	Haul	-	-	-
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	Haul	12	24	25.0	Haul	-	-	-
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	Haul	-	-	25.0	Haul	-	-	-
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	Haul	-	-	25.0	Haul	-	-	-
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	Haul	-	-	25.0	Haul	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Haul	2	4	25.0	Haul	-	-	-
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Haul	2	4	25.0	Haul	-	-	-
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Haul	2	4	25.0	Haul	-	-	-
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Haul	2	4	25.0	Haul	-	-	-
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	Haul	-	-	25.0	Haul	-	-	-
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	Haul	46	92	25.0	Haul	-	-	-
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	Haul	36	72	25.0	Haul	-	-	-
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	Haul	34	68	25.0	Haul	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 1

Schedule/Phasing[1] | Concrete Truck Deliveries[4] | Water Trucks[6]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Workday Duration (Hours per day)[7]	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Concrete	-	-	10.2	Water	3	6	2.0
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Concrete	-	-	10.2	Water	3	6	2.0
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Concrete	2	4	10.2	Water	3	6	2.0
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	Concrete	-	-	10.2	Water	3	6	2.0
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	Concrete	-	-	10.2	Water	3	6	2.0
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Concrete	-	-	10.2	Water	3	6	2.0
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Concrete	-	-	10.2	Water	3	6	2.0
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Concrete	-	-	10.2	Water	3	6	2.0
TPSS 2-Wilshire Blvd-Concrete Work	6/1/2033	7/31/2033	5	43	10	Concrete	2	4	10.2	Water	3	6	2.0
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	Concrete	-	-	10.2	Water	3	6	2.0
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	Concrete	-	-	10.2	Water	3	6	2.0
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Concrete	-	-	10.2	Water	3	6	2.0
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Concrete	-	-	10.2	Water	3	6	2.0
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Concrete	-	-	10.2	Water	3	6	2.0
TPSS 3-Sunset Onramp-Concrete Work	6/1/2033	7/31/2033	5	43	10	Concrete	2	4	10.2	Water	3	6	2.0
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	Concrete	-	-	10.2	Water	3	6	2.0
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	Concrete	-	-	10.2	Water	3	6	2.0
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Concrete	-	-	10.2	Water	3	6	2.0
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Concrete	-	-	10.2	Water	3	6	2.0
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Concrete	-	-	10.2	Water	3	6	2.0
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	Concrete	2	4	10.2	Water	3	6	2.0
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	Concrete	-	-	10.2	Water	3	6	2.0
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	Concrete	-	-	10.2	Water	3	6	2.0
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Concrete	-	-	10.2	Water	3	6	2.0
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Concrete	-	-	10.2	Water	3	6	2.0
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Concrete	-	-	10.2	Water	3	6	2.0
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	Concrete	2	4	10.2	Water	3	6	2.0
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	Concrete	-	-	10.2	Water	3	6	2.0
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	Concrete	-	-	10.2	Water	3	6	2.0
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Concrete	-	-	10.2	Water	3	6	2.0
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Concrete	-	-	10.2	Water	3	6	2.0
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Concrete	-	-	10.2	Water	3	6	2.0
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	Concrete	2	4	10.2	Water	3	6	2.0
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	Concrete	-	-	10.2	Water	3	6	2.0
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	Concrete	-	-	10.2	Water	3	6	2.0
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	Concrete	-	-	10.2	Water	3	6	2.0
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Concrete	-	-	10.2	Water	3	6	2.0
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	Concrete	-	-	10.2	Water	3	6	2.0
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	Concrete	52	104	10.2	Water	3	6	2.0
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	Concrete	-	-	10.2	Water	3	6	2.0
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	Concrete	-	-	10.2	Water	3	6	2.0
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	Concrete	-	-	10.2	Water	3	6	2.0
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Concrete	-	-	10.2	Water	3	6	2.0
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	Concrete	-	-	10.2	Water	3	6	2.0
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	Concrete	2	4	10.2	Water	3	6	2.0
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	Concrete	-	-	10.2	Water	3	6	2.0
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	Concrete	-	-	10.2	Water	3	6	2.0
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Concrete	2	4	10.2	Water	3	6	2.0
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Concrete	2	4	10.2	Water	3	6	2.0
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Concrete	2	4	10.2	Water	3	6	2.0
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Concrete	2	4	10.2	Water	3	6	2.0
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	Concrete	-	-	10.2	Water	3	6	2.0
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	Concrete	-	-	10.2	Water	3	6	2.0
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	Concrete	-	-	10.2	Water	3	6	2.0
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	Concrete	26	52	10.2	Water	3	6	2.0

Sepulveda Transit Corridor Project - ALTERNATIVE 1

Schedule/Phasing[1] | Construction Materials[1] | Worker Trips[2,3]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Workday Duration (Hours per day)[7]	Total Demo Debris (tons)	Excavation Quantity (CY)	Soil Movement Quantity (CY)	Concrete Quantity (CY)	Paving Area (SF)	Building Area (SF)	Trip Type	Workers per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	823	-	-	-	-	-	Worker	10	12	25.0
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	-	-	54450	-	-	-	Worker	14	12	25.0
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	-	-	-	-	-	20000	Worker	24	60	25.0
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	-	-	667	-	3000	-	Worker	10	12	25.0
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	-	-	-	-	43560	-	Worker	14	12	25.0
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	-	-	-	82459	-	-	Worker	14	12	25.0

Notes:

1. Phasing and material data provided by LASRE team and based on structural designs.
2. Number of workers evaluated using CalEEMod methodology of 1.25 workers piece of equipment.
3. Worker trip length based on CalEEMod default value with exception of precast yard, data provided by LASRE team.
4. Concrete truck trip length based on CalEEMod default value for vendors.
5. Haul trips lengths based on project-specific data.
6. It was assumed water trucks would make 3 passes per day for ground/soil disturbing activities.
7. Daily workday hours account for safety meetings and lunch breaks.

Sepulveda Transit Corridor Project - ALTERNATIVE 1

Schedule/Phasing[1]						Material/Soil Haul Trucks[5]				Precast Concrete Structures Haul Trucks[5]			
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Workday Duration (Hours per day)[7]**	**Trip Type**	**Round Trips per Day**	**Total One-Way Trips per Day**	**One-Way Trip Length (mi)**	**Trip Type**	**Round Trips per Day**	**Total One-Way Trips per Day**	**One-Way Trip Length (mi)**
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	Haul	2	4	25.0	Haul	-	-	-
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	Haul	-	-	25.0	Haul	-	-	-
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	Haul	-	-	25.0	Haul	-	-	-
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	Haul	-	-	25.0	Haul	-	-	-
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	Haul	-	-	25.0	Haul	-	-	-
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	Haul	2	4	25.0	Haul	4	8	69

Notes:

1. Phasing and material data provided by LASRE team and based on structural designs.
2. Number of workers evaluated using CalEEMod methodology of 1.25 workers piece of equipment.
3. Worker trip length based on CalEEMod default value with exception of precast yard, data provided by LASRE team.
4. Concrete truck trip length based on CalEEMod default value for vendors.
5. Haul trips lengths based on project-specific data.
6. It was assumed water trucks would make 3 passes per day for ground/soil disturbing activities.
7. Daily workday hours account for safety meetings and lunch breaks.

Sepulveda Transit Corridor Project - ALTERNATIVE 1

Schedule/Phasing[1] | Concrete Truck Deliveries[4] | Water Trucks[6]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Workday Duration (Hours per day)[7]	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	Concrete	-	-	10.2	Water	3	6	5.0
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	Concrete	-	-	10.2	Water	3	6	5.0
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	Concrete	16	31	10.2	Water	3	6	5.0
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	Concrete	-	-	10.2	Water	3	6	5.0
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	Concrete	-	-	10.2	Water	3	6	5.0
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	Concrete	-	-	10.2	Water	3	6	5.0

Notes:

1. Phasing and material data provided by LASRE team and based on structural designs.
2. Number of workers evaluated using CalEEMod methodology of 1.25 workers piece of equipment.
3. Worker trip length based on CalEEMod default value with exception of precast yard, data provided by LASRE team.
4. Concrete truck trip length based on CalEEMod default value for vendors.
5. Haul trips lengths based on project-specific data.
6. It was assumed water trucks would make 3 passes per day for ground/soil disturbing activities.
7. Daily workday hours account for safety meetings and lunch breaks.

Sepulveda Transit Corridor Project - ALTERNATIVE 1

Off-Road Equipment Fleet

Phase Name	Equipment Type	Quantity	Usage (Hrs/day)
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	Medium Excavator	1	8.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	Small Excavator	1	8.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	Motor Grader	1	8.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	Wheel Loader	1	8.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	Pavement Saw	1	8.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	Small Compactor	1	8.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	Telescoping Fork	1	8.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	Medium Excavator	1	8.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	Small Excavator	1	8.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	Motor Grader	1	8.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	Wheel Loader	1	8.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	Pavement Saw	1	8.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	Small Compactor	1	8.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	Telescoping Fork	1	8.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	Oscillating Drill Rig	7	8.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	Crawler Crane	7	8.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	Hydraulic Crane	7	8.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	Telescoping Fork	14	8.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	Wheel Loader	7	8.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	Med. Excavator	7	8.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	Concrete Pump	7	8.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	Generator	14	8.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	Crawler Crane	1	8.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	Hydraulic Crane	1	8.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	Telescoping Fork	2	8.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	Wheel Loader	1	8.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	Med. Excavator	1	8.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	Concrete Pump	1	8.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	Generator	2	8.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	Hydraulic Crane	1	8.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	Telescoping Fork	2	8.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	Generator	2	8.5
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	Medium Excavator	1	8.5
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	Small Excavator	1	8.5
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	Motor Grader	1	8.5
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	Wheel Loader	1	8.5
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	Pavement Saw	1	8.5
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	Small Compactor	1	8.5
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	Telescoping Fork	1	8.5
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	Medium Excavator	1	8.5
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	Small Excavator	1	8.5
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	Motor Grader	1	8.5
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	Wheel Loader	1	8.5
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	Pavement Saw	1	8.5
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	Small Compactor	1	8.5
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	Telescoping Fork	1	8.5
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH)	Oscillating Drill Rig	3	8.5
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH)	Crawler Crane	3	8.5
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH)	Hydraulic Crane	3	8.5
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH)	Telescoping Fork	6	8.5
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH)	Wheel Loader	3	8.5
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH)	Med. Excavator	3	8.5
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH)	Concrete Pump	3	8.5
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH)	Generator	6	8.5
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembly	Crawler Crane	1	8.5
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembly	Hydraulic Crane	1	8.5
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembly	Telescoping Fork	2	8.5
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembly	Wheel Loader	1	8.5
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembly	Med. Excavator	1	8.5
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembly	Concrete Pump	1	8.5
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembly	Generator	2	8.5
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	Hydraulic Crane	1	8.5
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	Telescoping Fork	2	8.5
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	Generator	2	8.5

Sepulveda Transit Corridor Project - ALTERNATIVE 1

Off-Road Equipment Fleet

Phase Name	Equipment Type	Quantity	Usage (Hrs/day)
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	Medium Excavator	1	8.5
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	Small Excavator	1	8.5
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	Motor Grader	1	8.5
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	Wheel Loader	1	8.5
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	Pavement Saw	1	8.5
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	Small Compactor	1	8.5
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	Telescoping Fork	1	8.5
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	Medium Excavator	1	8.5
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	Small Excavator	1	8.5
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	Motor Grader	1	8.5
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	Wheel Loader	1	8.5
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	Pavement Saw	1	8.5
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	Small Compactor	1	8.5
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	Telescoping Fork	1	8.5
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	Oscillating Drill Rig	1	8.5
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	Crawler Crane	1	8.5
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	Hydraulic Crane	1	8.5
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	Telescoping Fork	2	8.5
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	Wheel Loader	1	8.5
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	Med. Excavator	1	8.5
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	Concrete Pump	1	8.5
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	Generator	2	8.5
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	Crawler Crane	1	8.5
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	Hydraulic Crane	1	8.5
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	Telescoping Fork	2	8.5
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	Wheel Loader	1	8.5
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	Med. Excavator	1	8.5
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	Concrete Pump	1	8.5
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	Generator	2	8.5
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	Hydraulic Crane	1	8.5
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	Telescoping Fork	2	8.5
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	Generator	2	8.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	Medium Excavator	1	8.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	Small Excavator	1	8.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	Motor Grader	1	8.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	Wheel Loader	1	8.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	Pavement Saw	1	8.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	Small Compactor	1	8.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	Telescoping Fork	1	8.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	Medium Excavator	1	8.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	Small Excavator	1	8.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	Motor Grader	1	8.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	Wheel Loader	1	8.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	Pavement Saw	1	8.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	Small Compactor	1	8.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	Telescoping Fork	1	8.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	Oscillating Drill Rig	2	8.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	Crawler Crane	2	8.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	Hydraulic Crane	2	8.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	Telescoping Fork	4	8.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	Wheel Loader	2	8.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	Med. Excavator	2	8.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	Concrete Pump	2	8.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	Generator	4	8.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	Crawler Crane	1	8.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	Hydraulic Crane	1	8.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	Telescoping Fork	2	8.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	Wheel Loader	1	8.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	Med. Excavator	1	8.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	Concrete Pump	1	8.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	Generator	2	8.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	Hydraulic Crane	1	8.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	Telescoping Fork	2	8.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	Generator	2	8.5

Sepulveda Transit Corridor Project - ALTERNATIVE 1

Off-Road Equipment Fleet

Phase Name	Equipment Type	Quantity	Usage (Hrs/day)
Van Nuys MRT Station-Utility Relocations	Medium Excavator	1	8.5
Van Nuys MRT Station-Utility Relocations	Small Excavator	1	8.5
Van Nuys MRT Station-Utility Relocations	Motor Grader	1	8.5
Van Nuys MRT Station-Utility Relocations	Wheel Loader	1	8.5
Van Nuys MRT Station-Utility Relocations	Pavement Saw	1	8.5
Van Nuys MRT Station-Utility Relocations	Small Compactor	1	8.5
Van Nuys MRT Station-Utility Relocations	Telescoping Fork	1	8.5
Van Nuys MRT Station-Demolition/Site Preparation	Medium Excavator	1	8.5
Van Nuys MRT Station-Demolition/Site Preparation	Small Excavator	1	8.5
Van Nuys MRT Station-Demolition/Site Preparation	Motor Grader	1	8.5
Van Nuys MRT Station-Demolition/Site Preparation	Wheel Loader	1	8.5
Van Nuys MRT Station-Demolition/Site Preparation	Pavement Saw	1	8.5
Van Nuys MRT Station-Demolition/Site Preparation	Small Compactor	1	8.5
Van Nuys MRT Station-Demolition/Site Preparation	Telescoping Fork	1	8.5
Van Nuys MRT Station-Substructure Foundations (CIDH)	Oscillating Drill Rig	1	8.5
Van Nuys MRT Station-Substructure Foundations (CIDH)	Crawler Crane	1	8.5
Van Nuys MRT Station-Substructure Foundations (CIDH)	Hydraulic Crane	1	8.5
Van Nuys MRT Station-Substructure Foundations (CIDH)	Telescoping Fork	2	8.5
Van Nuys MRT Station-Substructure Foundations (CIDH)	Wheel Loader	1	8.5
Van Nuys MRT Station-Substructure Foundations (CIDH)	Med. Excavator	1	8.5
Van Nuys MRT Station-Substructure Foundations (CIDH)	Concrete Pump	1	8.5
Van Nuys MRT Station-Substructure Foundations (CIDH)	Generator	2	8.5
Van Nuys MRT Station-Precast Superstructure Assembly	Crawler Crane	1	8.5
Van Nuys MRT Station-Precast Superstructure Assembly	Hydraulic Crane	1	8.5
Van Nuys MRT Station-Precast Superstructure Assembly	Telescoping Fork	2	8.5
Van Nuys MRT Station-Precast Superstructure Assembly	Wheel Loader	1	8.5
Van Nuys MRT Station-Precast Superstructure Assembly	Med. Excavator	1	8.5
Van Nuys MRT Station-Precast Superstructure Assembly	Concrete Pump	1	8.5
Van Nuys MRT Station-Precast Superstructure Assembly	Generator	2	8.5
Van Nuys MRT Station-Finishing Work	Hydraulic Crane	1	8.5
Van Nuys MRT Station-Finishing Work	Telescoping Fork	2	8.5
Van Nuys MRT Station-Finishing Work	Generator	2	8.5
Sherman Way MRT Station-Utility Relocations	Medium Excavator	1	8.5
Sherman Way MRT Station-Utility Relocations	Small Excavator	1	8.5
Sherman Way MRT Station-Utility Relocations	Motor Grader	1	8.5
Sherman Way MRT Station-Utility Relocations	Wheel Loader	1	8.5
Sherman Way MRT Station-Utility Relocations	Pavement Saw	1	8.5
Sherman Way MRT Station-Utility Relocations	Small Compactor	1	8.5
Sherman Way MRT Station-Utility Relocations	Telescoping Fork	1	8.5
Sherman Way MRT Station-Demolition/Site Preparation	Medium Excavator	1	8.5
Sherman Way MRT Station-Demolition/Site Preparation	Small Excavator	1	8.5
Sherman Way MRT Station-Demolition/Site Preparation	Motor Grader	1	8.5
Sherman Way MRT Station-Demolition/Site Preparation	Wheel Loader	1	8.5
Sherman Way MRT Station-Demolition/Site Preparation	Pavement Saw	1	8.5
Sherman Way MRT Station-Demolition/Site Preparation	Small Compactor	1	8.5
Sherman Way MRT Station-Demolition/Site Preparation	Telescoping Fork	1	8.5
Sherman Way MRT Station-Substructure Foundations (CIDH)	Oscillating Drill Rig	1	8.5
Sherman Way MRT Station-Substructure Foundations (CIDH)	Crawler Crane	1	8.5
Sherman Way MRT Station-Substructure Foundations (CIDH)	Hydraulic Crane	1	8.5
Sherman Way MRT Station-Substructure Foundations (CIDH)	Telescoping Fork	2	8.5
Sherman Way MRT Station-Substructure Foundations (CIDH)	Wheel Loader	1	8.5
Sherman Way MRT Station-Substructure Foundations (CIDH)	Med. Excavator	1	8.5
Sherman Way MRT Station-Substructure Foundations (CIDH)	Concrete Pump	1	8.5
Sherman Way MRT Station-Substructure Foundations (CIDH)	Generator	2	8.5
Sherman Way MRT Station-Precast Superstructure Assembly	Crawler Crane	1	8.5
Sherman Way MRT Station-Precast Superstructure Assembly	Hydraulic Crane	1	8.5
Sherman Way MRT Station-Precast Superstructure Assembly	Telescoping Fork	2	8.5
Sherman Way MRT Station-Precast Superstructure Assembly	Wheel Loader	1	8.5
Sherman Way MRT Station-Precast Superstructure Assembly	Med. Excavator	1	8.5
Sherman Way MRT Station-Precast Superstructure Assembly	Concrete Pump	1	8.5
Sherman Way MRT Station-Precast Superstructure Assembly	Generator	2	8.5
Sherman Way MRT Station-Finishing Work	Hydraulic Crane	1	8.5
Sherman Way MRT Station-Finishing Work	Telescoping Fork	2	8.5
Sherman Way MRT Station-Finishing Work	Generator	2	8.5

Sepulveda Transit Corridor Project - ALTERNATIVE 1

Off-Road Equipment Fleet

Phase Name	Equipment Type	Quantity	Usage (Hrs/day)
Metro G Line MRT Station-Utility Relocations	Medium Excavator	1	8.5
Metro G Line MRT Station-Utility Relocations	Small Excavator	1	8.5
Metro G Line MRT Station-Utility Relocations	Motor Grader	1	8.5
Metro G Line MRT Station-Utility Relocations	Wheel Loader	1	8.5
Metro G Line MRT Station-Utility Relocations	Pavement Saw	1	8.5
Metro G Line MRT Station-Utility Relocations	Small Compactor	1	8.5
Metro G Line MRT Station-Utility Relocations	Telescoping Fork	1	8.5
Metro G Line MRT Station-Demolition/Site Preparation	Medium Excavator	1	8.5
Metro G Line MRT Station-Demolition/Site Preparation	Small Excavator	1	8.5
Metro G Line MRT Station-Demolition/Site Preparation	Motor Grader	1	8.5
Metro G Line MRT Station-Demolition/Site Preparation	Wheel Loader	1	8.5
Metro G Line MRT Station-Demolition/Site Preparation	Pavement Saw	1	8.5
Metro G Line MRT Station-Demolition/Site Preparation	Small Compactor	1	8.5
Metro G Line MRT Station-Demolition/Site Preparation	Telescoping Fork	1	8.5
Metro G Line MRT Station-Substructure Foundations (CIDH)	Oscillating Drill Rig	1	8.5
Metro G Line MRT Station-Substructure Foundations (CIDH)	Crawler Crane	1	8.5
Metro G Line MRT Station-Substructure Foundations (CIDH)	Hydraulic Crane	1	8.5
Metro G Line MRT Station-Substructure Foundations (CIDH)	Telescoping Fork	2	8.5
Metro G Line MRT Station-Substructure Foundations (CIDH)	Wheel Loader	1	8.5
Metro G Line MRT Station-Substructure Foundations (CIDH)	Med. Excavator	1	8.5
Metro G Line MRT Station-Substructure Foundations (CIDH)	Concrete Pump	1	8.5
Metro G Line MRT Station-Substructure Foundations (CIDH)	Generator	2	8.5
Metro G Line MRT Station-Precast Superstructure Assembly	Crawler Crane	1	8.5
Metro G Line MRT Station-Precast Superstructure Assembly	Hydraulic Crane	1	8.5
Metro G Line MRT Station-Precast Superstructure Assembly	Telescoping Fork	2	8.5
Metro G Line MRT Station-Precast Superstructure Assembly	Wheel Loader	1	8.5
Metro G Line MRT Station-Precast Superstructure Assembly	Med. Excavator	1	8.5
Metro G Line MRT Station-Precast Superstructure Assembly	Concrete Pump	1	8.5
Metro G Line MRT Station-Precast Superstructure Assembly	Generator	2	8.5
Metro G Line MRT Station-Finishing Work	Hydraulic Crane	1	8.5
Metro G Line MRT Station-Finishing Work	Telescoping Fork	2	8.5
Metro G Line MRT Station-Finishing Work	Generator	2	8.5
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	Medium Excavator	1	8.5
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	Small Excavator	1	8.5
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	Motor Grader	1	8.5
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	Wheel Loader	1	8.5
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	Pavement Saw	1	8.5
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	Small Compactor	1	8.5
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	Telescoping Fork	1	8.5
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	Medium Excavator	1	8.5
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	Small Excavator	1	8.5
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	Motor Grader	1	8.5
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	Wheel Loader	1	8.5
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	Pavement Saw	1	8.5
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	Small Compactor	1	8.5
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	Telescoping Fork	1	8.5
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	Oscillating Drill Rig	1	8.5
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	Crawler Crane	1	8.5
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	Hydraulic Crane	1	8.5
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	Telescoping Fork	2	8.5
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	Wheel Loader	1	8.5
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	Med. Excavator	1	8.5
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	Concrete Pump	1	8.5
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	Generator	2	8.5
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	Crawler Crane	1	8.5
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	Hydraulic Crane	1	8.5
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	Telescoping Fork	2	8.5
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	Wheel Loader	1	8.5
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	Med. Excavator	1	8.5
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	Concrete Pump	1	8.5
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	Generator	2	8.5
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	Hydraulic Crane	1	8.5
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	Telescoping Fork	2	8.5
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	Generator	2	8.5

Sepulveda Transit Corridor Project - ALTERNATIVE 1

Off-Road Equipment Fleet

Phase Name	Equipment Type	Quantity	Usage (Hrs/day)
Getty Center MRT Station-Utility Relocations	Medium Excavator	1	8.5
Getty Center MRT Station-Utility Relocations	Small Excavator	1	8.5
Getty Center MRT Station-Utility Relocations	Motor Grader	1	8.5
Getty Center MRT Station-Utility Relocations	Wheel Loader	1	8.5
Getty Center MRT Station-Utility Relocations	Pavement Saw	1	8.5
Getty Center MRT Station-Utility Relocations	Small Compactor	1	8.5
Getty Center MRT Station-Utility Relocations	Telescoping Fork	1	8.5
Getty Center MRT Station-Demolition/Site Preparation	Medium Excavator	1	8.5
Getty Center MRT Station-Demolition/Site Preparation	Small Excavator	1	8.5
Getty Center MRT Station-Demolition/Site Preparation	Motor Grader	1	8.5
Getty Center MRT Station-Demolition/Site Preparation	Wheel Loader	1	8.5
Getty Center MRT Station-Demolition/Site Preparation	Pavement Saw	1	8.5
Getty Center MRT Station-Demolition/Site Preparation	Small Compactor	1	8.5
Getty Center MRT Station-Demolition/Site Preparation	Telescoping Fork	1	8.5
Getty Center MRT Station-Substructure Foundations (CIDH)	Oscillating Drill Rig	1	8.5
Getty Center MRT Station-Substructure Foundations (CIDH)	Crawler Crane	1	8.5
Getty Center MRT Station-Substructure Foundations (CIDH)	Hydraulic Crane	1	8.5
Getty Center MRT Station-Substructure Foundations (CIDH)	Telescoping Fork	2	8.5
Getty Center MRT Station-Substructure Foundations (CIDH)	Wheel Loader	1	8.5
Getty Center MRT Station-Substructure Foundations (CIDH)	Med. Excavator	1	8.5
Getty Center MRT Station-Substructure Foundations (CIDH)	Concrete Pump	1	8.5
Getty Center MRT Station-Substructure Foundations (CIDH)	Generator	2	8.5
Getty Center MRT Station-Precast Superstructure Assembly	Crawler Crane	1	8.5
Getty Center MRT Station-Precast Superstructure Assembly	Hydraulic Crane	1	8.5
Getty Center MRT Station-Precast Superstructure Assembly	Telescoping Fork	2	8.5
Getty Center MRT Station-Precast Superstructure Assembly	Wheel Loader	1	8.5
Getty Center MRT Station-Precast Superstructure Assembly	Med. Excavator	1	8.5
Getty Center MRT Station-Precast Superstructure Assembly	Concrete Pump	1	8.5
Getty Center MRT Station-Precast Superstructure Assembly	Generator	2	8.5
Getty Center MRT Station-Finishing Work	Hydraulic Crane	1	8.5
Getty Center MRT Station-Finishing Work	Telescoping Fork	2	8.5
Getty Center MRT Station-Finishing Work	Generator	2	8.5
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	Medium Excavator	1	8.5
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	Small Excavator	1	8.5
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	Motor Grader	1	8.5
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	Wheel Loader	1	8.5
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	Pavement Saw	1	8.5
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	Small Compactor	1	8.5
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	Telescoping Fork	1	8.5
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	Medium Excavator	1	8.5
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	Small Excavator	1	8.5
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	Motor Grader	1	8.5
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	Wheel Loader	1	8.5
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	Pavement Saw	1	8.5
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	Small Compactor	1	8.5
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	Telescoping Fork	1	8.5
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	Oscillating Drill Rig	1	8.5
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	Crawler Crane	1	8.5
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	Hydraulic Crane	1	8.5
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	Telescoping Fork	2	8.5
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	Wheel Loader	1	8.5
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	Med. Excavator	1	8.5
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	Concrete Pump	1	8.5
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	Generator	2	8.5
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	Crawler Crane	1	8.5
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	Hydraulic Crane	1	8.5
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	Telescoping Fork	2	8.5
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	Wheel Loader	1	8.5
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	Med. Excavator	1	8.5
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	Concrete Pump	1	8.5
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	Generator	2	8.5
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	Hydraulic Crane	1	8.5
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	Telescoping Fork	2	8.5
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	Generator	2	8.5

Sepulveda Transit Corridor Project - ALTERNATIVE 1

Off-Road Equipment Fleet

Phase Name	Equipment Type	Quantity	Usage (Hrs/day)
Santa Monica Blvd MRT Station-Utility Relocations	Medium Excavator	1	8.5
Santa Monica Blvd MRT Station-Utility Relocations	Small Excavator	1	8.5
Santa Monica Blvd MRT Station-Utility Relocations	Motor Grader	1	8.5
Santa Monica Blvd MRT Station-Utility Relocations	Wheel Loader	1	8.5
Santa Monica Blvd MRT Station-Utility Relocations	Pavement Saw	1	8.5
Santa Monica Blvd MRT Station-Utility Relocations	Small Compactor	1	8.5
Santa Monica Blvd MRT Station-Utility Relocations	Telescoping Fork	1	8.5
Santa Monica Blvd MRT Station-Demolition/Site Preparation	Medium Excavator	1	8.5
Santa Monica Blvd MRT Station-Demolition/Site Preparation	Small Excavator	1	8.5
Santa Monica Blvd MRT Station-Demolition/Site Preparation	Motor Grader	1	8.5
Santa Monica Blvd MRT Station-Demolition/Site Preparation	Wheel Loader	1	8.5
Santa Monica Blvd MRT Station-Demolition/Site Preparation	Pavement Saw	1	8.5
Santa Monica Blvd MRT Station-Demolition/Site Preparation	Small Compactor	1	8.5
Santa Monica Blvd MRT Station-Demolition/Site Preparation	Telescoping Fork	1	8.5
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	Oscillating Drill Rig	1	8.5
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	Crawler Crane	1	8.5
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	Hydraulic Crane	1	8.5
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	Telescoping Fork	2	8.5
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	Wheel Loader	1	8.5
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	Med. Excavator	1	8.5
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	Concrete Pump	1	8.5
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	Generator	2	8.5
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	Crawler Crane	1	8.5
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	Hydraulic Crane	1	8.5
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	Telescoping Fork	2	8.5
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	Wheel Loader	1	8.5
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	Med. Excavator	1	8.5
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	Concrete Pump	1	8.5
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	Generator	2	8.5
Santa Monica Blvd MRT Station-Finishing Work	Hydraulic Crane	1	8.5
Santa Monica Blvd MRT Station-Finishing Work	Telescoping Fork	2	8.5
Santa Monica Blvd MRT Station-Finishing Work	Generator	2	8.5
Exposition Blvd MRT Station-Utility Relocations	Medium Excavator	1	8.5
Exposition Blvd MRT Station-Utility Relocations	Small Excavator	1	8.5
Exposition Blvd MRT Station-Utility Relocations	Motor Grader	1	8.5
Exposition Blvd MRT Station-Utility Relocations	Wheel Loader	1	8.5
Exposition Blvd MRT Station-Utility Relocations	Pavement Saw	1	8.5
Exposition Blvd MRT Station-Utility Relocations	Small Compactor	1	8.5
Exposition Blvd MRT Station-Utility Relocations	Telescoping Fork	1	8.5
Exposition Blvd MRT Station-Demolition/Site Preparation	Medium Excavator	1	8.5
Exposition Blvd MRT Station-Demolition/Site Preparation	Small Excavator	1	8.5
Exposition Blvd MRT Station-Demolition/Site Preparation	Motor Grader	1	8.5
Exposition Blvd MRT Station-Demolition/Site Preparation	Wheel Loader	1	8.5
Exposition Blvd MRT Station-Demolition/Site Preparation	Pavement Saw	1	8.5
Exposition Blvd MRT Station-Demolition/Site Preparation	Small Compactor	1	8.5
Exposition Blvd MRT Station-Demolition/Site Preparation	Telescoping Fork	1	8.5
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	Oscillating Drill Rig	1	8.5
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	Crawler Crane	1	8.5
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	Hydraulic Crane	1	8.5
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	Telescoping Fork	2	8.5
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	Wheel Loader	1	8.5
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	Med. Excavator	1	8.5
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	Concrete Pump	1	8.5
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	Generator	2	8.5
Exposition Blvd MRT Station-Precast Superstructure Assembly	Crawler Crane	1	8.5
Exposition Blvd MRT Station-Precast Superstructure Assembly	Hydraulic Crane	1	8.5
Exposition Blvd MRT Station-Precast Superstructure Assembly	Telescoping Fork	2	8.5
Exposition Blvd MRT Station-Precast Superstructure Assembly	Wheel Loader	1	8.5
Exposition Blvd MRT Station-Precast Superstructure Assembly	Med. Excavator	1	8.5
Exposition Blvd MRT Station-Precast Superstructure Assembly	Concrete Pump	1	8.5
Exposition Blvd MRT Station-Precast Superstructure Assembly	Generator	2	8.5
Exposition Blvd MRT Station-Finishing Work	Hydraulic Crane	1	8.5
Exposition Blvd MRT Station-Finishing Work	Telescoping Fork	2	8.5
Exposition Blvd MRT Station-Finishing Work	Generator	2	8.5

Sepulveda Transit Corridor Project - ALTERNATIVE 1

Off-Road Equipment Fleet

Phase Name	Equipment Type	Quantity	Usage (Hrs/day)
TPSS 2-Wilshire Blvd-Utility Relocation	Medium Excavator	1	8.5
TPSS 2-Wilshire Blvd-Utility Relocation	Small Excavator	1	8.5
TPSS 2-Wilshire Blvd-Utility Relocation	Motor Grader	1	8.5
TPSS 2-Wilshire Blvd-Utility Relocation	Wheel Loader	1	8.5
TPSS 2-Wilshire Blvd-Utility Relocation	Pavement Saw	1	8.5
TPSS 2-Wilshire Blvd-Utility Relocation	Small Compactor	1	8.5
TPSS 2-Wilshire Blvd-Utility Relocation	Telescoping Fork	1	8.5
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	Large Excavator	1	8.5
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	Wheel Loader	1	8.5
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	Dozer	1	8.5
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	Compactor	1	8.5
TPSS 2-Wilshire Blvd-Grading/Excavation	Large Excavator	1	8.5
TPSS 2-Wilshire Blvd-Grading/Excavation	Motor Grader	1	8.5
TPSS 2-Wilshire Blvd-Grading/Excavation	Wheel Loader	1	8.5
TPSS 2-Wilshire Blvd-Grading/Excavation	Dozer-1ea	1	8.5
TPSS 2-Wilshire Blvd-Grading/Excavation	Compactor	1	8.5
TPSS 2-Wilshire Blvd-Concrete Work	Compactor	4	8.5
TPSS 2-Wilshire Blvd-Concrete Work	Telescoping Fork	4	8.5
TPSS 2-Wilshire Blvd-Concrete Work	Conc Pump	2	8.5
TPSS 2-Wilshire Blvd-Utility Work	Medium Excavator	1	8.5
TPSS 2-Wilshire Blvd-Utility Work	Small Excavator	1	8.5
TPSS 2-Wilshire Blvd-Utility Work	Motor Grader	1	8.5
TPSS 2-Wilshire Blvd-Utility Work	Wheel Loader	1	8.5
TPSS 2-Wilshire Blvd-Utility Work	Pavement Saw	1	8.5
TPSS 2-Wilshire Blvd-Utility Work	Small Compactor	1	8.5
TPSS 2-Wilshire Blvd-Utility Work	Telescoping Fork	1	8.5
TPSS 2-Wilshire Blvd-Paving	Motor Grader	1	8.5
TPSS 2-Wilshire Blvd-Paving	Wheel Loader	2	8.5
TPSS 2-Wilshire Blvd-Paving	Dozer	1	8.5
TPSS 2-Wilshire Blvd-Paving	Compactor	2	8.5
TPSS 2-Wilshire Blvd-Paving	Asphalt Paver	1	8.5
TPSS 2-Wilshire Blvd-Paving	Asphalt roller	2	8.5
TPSS 3-Sunset Onramp-Utility Relocation	Medium Excavator	1	8.5
TPSS 3-Sunset Onramp-Utility Relocation	Small Excavator	1	8.5
TPSS 3-Sunset Onramp-Utility Relocation	Motor Grader	1	8.5
TPSS 3-Sunset Onramp-Utility Relocation	Wheel Loader	1	8.5
TPSS 3-Sunset Onramp-Utility Relocation	Pavement Saw	1	8.5
TPSS 3-Sunset Onramp-Utility Relocation	Small Compactor	1	8.5
TPSS 3-Sunset Onramp-Utility Relocation	Telescoping Fork	1	8.5
TPSS 3-Sunset Onramp-Demolition/Site Preparation	Large Excavator	1	8.5
TPSS 3-Sunset Onramp-Demolition/Site Preparation	Wheel Loader	1	8.5
TPSS 3-Sunset Onramp-Demolition/Site Preparation	Dozer	1	8.5
TPSS 3-Sunset Onramp-Demolition/Site Preparation	Compactor	1	8.5
TPSS 3-Sunset Onramp-Grading/Excavation	Large Excavator	1	8.5
TPSS 3-Sunset Onramp-Grading/Excavation	Motor Grader	1	8.5
TPSS 3-Sunset Onramp-Grading/Excavation	Wheel Loader	1	8.5
TPSS 3-Sunset Onramp-Grading/Excavation	Dozer-1ea	1	8.5
TPSS 3-Sunset Onramp-Grading/Excavation	Compactor	1	8.5
TPSS 3-Sunset Onramp-Concrete Work	Compactor	4	8.5
TPSS 3-Sunset Onramp-Concrete Work	Telescoping Fork	4	8.5
TPSS 3-Sunset Onramp-Concrete Work	Conc Pump	2	8.5
TPSS 3-Sunset Onramp-Utility Work	Medium Excavator	1	8.5
TPSS 3-Sunset Onramp-Utility Work	Small Excavator	1	8.5
TPSS 3-Sunset Onramp-Utility Work	Motor Grader	1	8.5
TPSS 3-Sunset Onramp-Utility Work	Wheel Loader	1	8.5
TPSS 3-Sunset Onramp-Utility Work	Pavement Saw	1	8.5
TPSS 3-Sunset Onramp-Utility Work	Small Compactor	1	8.5
TPSS 3-Sunset Onramp-Utility Work	Telescoping Fork	1	8.5
TPSS 3-Sunset Onramp-Paving	Motor Grader	1	8.5
TPSS 3-Sunset Onramp-Paving	Wheel Loader	2	8.5
TPSS 3-Sunset Onramp-Paving	Dozer	1	8.5
TPSS 3-Sunset Onramp-Paving	Compactor	2	8.5
TPSS 3-Sunset Onramp-Paving	Asphalt Paver	1	8.5
TPSS 3-Sunset Onramp-Paving	Asphalt roller	2	8.5

Sepulveda Transit Corridor Project - ALTERNATIVE 1

Off-Road Equipment Fleet

Phase Name	Equipment Type	Quantity	Usage (Hrs/day)
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	Medium Excavator	1	8.5
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	Small Excavator	1	8.5
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	Motor Grader	1	8.5
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	Wheel Loader	1	8.5
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	Pavement Saw	1	8.5
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	Small Compactor	1	8.5
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	Telescoping Fork	1	8.5
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	Large Excavator	1	8.5
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	Wheel Loader	1	8.5
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	Dozer	1	8.5
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	Compactor	1	8.5
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	Large Excavator	1	8.5
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	Motor Grader	1	8.5
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	Wheel Loader	1	8.5
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	Dozer-1ea	1	8.5
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	Compactor	1	8.5
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	Compactor	4	8.5
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	Telescoping Fork	4	8.5
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	Conc Pump	2	8.5
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	Medium Excavator	1	8.5
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	Small Excavator	1	8.5
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	Motor Grader	1	8.5
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	Wheel Loader	1	8.5
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	Pavement Saw	1	8.5
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	Small Compactor	1	8.5
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	Telescoping Fork	1	8.5
TPSS 4-405-Near Getty Center on East side of 405-Paving	Motor Grader	1	8.5
TPSS 4-405-Near Getty Center on East side of 405-Paving	Wheel Loader	2	8.5
TPSS 4-405-Near Getty Center on East side of 405-Paving	Dozer	1	8.5
TPSS 4-405-Near Getty Center on East side of 405-Paving	Compactor	2	8.5
TPSS 4-405-Near Getty Center on East side of 405-Paving	Asphalt Paver	1	8.5
TPSS 4-405-Near Getty Center on East side of 405-Paving	Asphalt roller	2	8.5
TPSS 6-Skirball-Utility Relocation	Medium Excavator	1	8.5
TPSS 6-Skirball-Utility Relocation	Small Excavator	1	8.5
TPSS 6-Skirball-Utility Relocation	Motor Grader	1	8.5
TPSS 6-Skirball-Utility Relocation	Wheel Loader	1	8.5
TPSS 6-Skirball-Utility Relocation	Pavement Saw	1	8.5
TPSS 6-Skirball-Utility Relocation	Small Compactor	1	8.5
TPSS 6-Skirball-Utility Relocation	Telescoping Fork	1	8.5
TPSS 6-Skirball-Demolition/Site Preparation	Large Excavator	1	8.5
TPSS 6-Skirball-Demolition/Site Preparation	Wheel Loader	1	8.5
TPSS 6-Skirball-Demolition/Site Preparation	Dozer	1	8.5
TPSS 6-Skirball-Demolition/Site Preparation	Compactor	1	8.5
TPSS 6-Skirball-Grading/Excavation	Large Excavator	1	8.5
TPSS 6-Skirball-Grading/Excavation	Motor Grader	1	8.5
TPSS 6-Skirball-Grading/Excavation	Wheel Loader	1	8.5
TPSS 6-Skirball-Grading/Excavation	Dozer-1ea	1	8.5
TPSS 6-Skirball-Grading/Excavation	Compactor	1	8.5
TPSS 6-Skirball-Concrete Work	Compactor	4	8.5
TPSS 6-Skirball-Concrete Work	Telescoping Fork	4	8.5
TPSS 6-Skirball-Concrete Work	Conc Pump	2	8.5
TPSS 6-Skirball-Utility Work	Medium Excavator	1	8.5
TPSS 6-Skirball-Utility Work	Small Excavator	1	8.5
TPSS 6-Skirball-Utility Work	Motor Grader	1	8.5
TPSS 6-Skirball-Utility Work	Wheel Loader	1	8.5
TPSS 6-Skirball-Utility Work	Pavement Saw	1	8.5
TPSS 6-Skirball-Utility Work	Small Compactor	1	8.5
TPSS 6-Skirball-Utility Work	Telescoping Fork	1	8.5
TPSS 6-Skirball-Paving	Motor Grader	1	8.5
TPSS 6-Skirball-Paving	Wheel Loader	2	8.5
TPSS 6-Skirball-Paving	Dozer	1	8.5
TPSS 6-Skirball-Paving	Compactor	2	8.5
TPSS 6-Skirball-Paving	Asphalt Paver	1	8.5
TPSS 6-Skirball-Paving	Asphalt roller	2	8.5

Sepulveda Transit Corridor Project - ALTERNATIVE 1

Off-Road Equipment Fleet

Phase Name	Equipment Type	Quantity	Usage (Hrs/day)
TPSS 11-Raymer-Van Nuys-Utility Relocation	Medium Excavator	1	8.5
TPSS 11-Raymer-Van Nuys-Utility Relocation	Small Excavator	1	8.5
TPSS 11-Raymer-Van Nuys-Utility Relocation	Motor Grader	1	8.5
TPSS 11-Raymer-Van Nuys-Utility Relocation	Wheel Loader	1	8.5
TPSS 11-Raymer-Van Nuys-Utility Relocation	Pavement Saw	1	8.5
TPSS 11-Raymer-Van Nuys-Utility Relocation	Small Compactor	1	8.5
TPSS 11-Raymer-Van Nuys-Utility Relocation	Telescoping Fork	1	8.5
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	Large Excavator	1	8.5
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	Wheel Loader	1	8.5
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	Dozer	1	8.5
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	Compactor	1	8.5
TPSS 11-Raymer-Van Nuys-Grading/Excavation	Large Excavator	1	8.5
TPSS 11-Raymer-Van Nuys-Grading/Excavation	Motor Grader	1	8.5
TPSS 11-Raymer-Van Nuys-Grading/Excavation	Wheel Loader	1	8.5
TPSS 11-Raymer-Van Nuys-Grading/Excavation	Dozer-1ea	1	8.5
TPSS 11-Raymer-Van Nuys-Grading/Excavation	Compactor	1	8.5
TPSS 11-Raymer-Van Nuys-Concrete Work	Compactor	4	8.5
TPSS 11-Raymer-Van Nuys-Concrete Work	Telescoping Fork	4	8.5
TPSS 11-Raymer-Van Nuys-Concrete Work	Conc Pump	2	8.5
TPSS 11-Raymer-Van Nuys-Utility Work	Medium Excavator	1	8.5
TPSS 11-Raymer-Van Nuys-Utility Work	Small Excavator	1	8.5
TPSS 11-Raymer-Van Nuys-Utility Work	Motor Grader	1	8.5
TPSS 11-Raymer-Van Nuys-Utility Work	Wheel Loader	1	8.5
TPSS 11-Raymer-Van Nuys-Utility Work	Pavement Saw	1	8.5
TPSS 11-Raymer-Van Nuys-Utility Work	Small Compactor	1	8.5
TPSS 11-Raymer-Van Nuys-Utility Work	Telescoping Fork	1	8.5
TPSS 11-Raymer-Van Nuys-Paving	Motor Grader	1	8.5
TPSS 11-Raymer-Van Nuys-Paving	Wheel Loader	2	8.5
TPSS 11-Raymer-Van Nuys-Paving	Dozer	1	8.5
TPSS 11-Raymer-Van Nuys-Paving	Compactor	2	8.5
TPSS 11-Raymer-Van Nuys-Paving	Asphalt Paver	1	8.5
TPSS 11-Raymer-Van Nuys-Paving	Asphalt roller	2	8.5
OMSF-Utility Relocation	Medium Excavator	1	8.5
OMSF-Utility Relocation	Small Excavator	1	8.5
OMSF-Utility Relocation	Motor Grader	1	8.5
OMSF-Utility Relocation	Wheel Loader	1	8.5
OMSF-Utility Relocation	Pavement Saw	1	8.5
OMSF-Utility Relocation	Small Compactor	1	8.5
OMSF-Utility Relocation	Telescoping Fork	1	8.5
OMSF-Demolition/Site Preparation	Medium Excavator	1	8.5
OMSF-Demolition/Site Preparation	Small Excavator	1	8.5
OMSF-Demolition/Site Preparation	Motor Grader	1	8.5
OMSF-Demolition/Site Preparation	Wheel Loader	1	8.5
OMSF-Demolition/Site Preparation	Pavement Saw	1	8.5
OMSF-Demolition/Site Preparation	Small Compactor	1	8.5
OMSF-Demolition/Site Preparation	Telescoping Fork	1	8.5
OMSF-Grading/Excavation	Large Excavator	1	8.5
OMSF-Grading/Excavation	Small Excavator	1	8.5
OMSF-Grading/Excavation	Motor Grader	1	8.5
OMSF-Grading/Excavation	Wheel Loader	2	8.5
OMSF-Grading/Excavation	Dozer	1	8.5
OMSF-Grading/Excavation	623 Scraper	2	8.5
OMSF-Grading/Excavation	Compactor	2	8.5
OMSF-Concrete Work	RTG Crane	1	8.5
OMSF-Concrete Work	Hydraulic Crane	1	8.5
OMSF-Concrete Work	Telescoping Fork	2	8.5
OMSF-Concrete Work	Wheel Loader	1	8.5
OMSF-Concrete Work	Concrete Pump	1	8.5
OMSF-Concrete Work	Manlift	2	8.5
OMSF-Utility Work	Medium Excavator	1	8.5
OMSF-Utility Work	Small Excavator	1	8.5
OMSF-Utility Work	Motor Grader	1	8.5
OMSF-Utility Work	Wheel Loader	1	8.5
OMSF-Utility Work	Pavement Saw	1	8.5
OMSF-Utility Work	Small Compactor	1	8.5
OMSF-Utility Work	Telescoping Fork	1	8.5

Sepulveda Transit Corridor Project - ALTERNATIVE 1

Off-Road Equipment Fleet

Phase Name	Equipment Type	Quantity	Usage (Hrs/day)
OMSF-Paving	Motor Grader	1	8.5
OMSF-Paving	Wheel Loader	1	8.5
OMSF-Paving	Dozer	1	8.5
OMSF-Paving	Compactor	2	8.5
OMSF-Paving	Asphalt Paver	1	8.5
OMSF-Paving	Asphalt roller	2	8.5
e-Bus OMSF-Utility Relocation	Medium Excavator	1	8.5
e-Bus OMSF-Utility Relocation	Small Excavator	1	8.5
e-Bus OMSF-Utility Relocation	Motor Grader	1	8.5
e-Bus OMSF-Utility Relocation	Wheel Loader	1	8.5
e-Bus OMSF-Utility Relocation	Pavement Saw	1	8.5
e-Bus OMSF-Utility Relocation	Small Compactor	1	8.5
e-Bus OMSF-Utility Relocation	Telescoping Fork	1	8.5
e-Bus OMSF-Demolition/Site Preparation	Medium Excavator	1	8.5
e-Bus OMSF-Demolition/Site Preparation	Small Excavator	1	8.5
e-Bus OMSF-Demolition/Site Preparation	Motor Grader	1	8.5
e-Bus OMSF-Demolition/Site Preparation	Wheel Loader	1	8.5
e-Bus OMSF-Demolition/Site Preparation	Pavement Saw	1	8.5
e-Bus OMSF-Demolition/Site Preparation	Small Compactor	1	8.5
e-Bus OMSF-Demolition/Site Preparation	Telescoping Fork	1	8.5
e-Bus OMSF-Grading/Excavation	Large Excavator	1	8.5
e-Bus OMSF-Grading/Excavation	Small Excavator	1	8.5
e-Bus OMSF-Grading/Excavation	Motor Grader	1	8.5
e-Bus OMSF-Grading/Excavation	Wheel Loader	2	8.5
e-Bus OMSF-Grading/Excavation	Dozer	1	8.5
e-Bus OMSF-Grading/Excavation	623 Scraper	2	8.5
e-Bus OMSF-Grading/Excavation	Compactor	2	8.5
e-Bus OMSF-Building Work	RTG Crane	1	8.5
e-Bus OMSF-Building Work	Hydraulic Crane	1	8.5
e-Bus OMSF-Building Work	Telescoping Fork	2	8.5
e-Bus OMSF-Building Work	Wheel Loader	1	8.5
e-Bus OMSF-Building Work	Concrete Pump	1	8.5
e-Bus OMSF-Building Work	Manlift	2	8.5
e-Bus OMSF-Utility Work	Medium Excavator	1	8.5
e-Bus OMSF-Utility Work	Small Excavator	1	8.5
e-Bus OMSF-Utility Work	Motor Grader	1	8.5
e-Bus OMSF-Utility Work	Wheel Loader	1	8.5
e-Bus OMSF-Utility Work	Pavement Saw	1	8.5
e-Bus OMSF-Utility Work	Small Compactor	1	8.5
e-Bus OMSF-Utility Work	Telescoping Fork	1	8.5
e-Bus OMSF-Paving	Motor Grader	1	8.5
e-Bus OMSF-Paving	Wheel Loader	1	8.5
e-Bus OMSF-Paving	Dozer	1	8.5
e-Bus OMSF-Paving	Compactor	2	8.5
e-Bus OMSF-Paving	Asphalt Paver	1	8.5
e-Bus OMSF-Paving	Asphalt roller	2	8.5
Haynes St Utility Relocation-Construction	Medium Excavator	1	8.5
Haynes St Utility Relocation-Construction	Small Excavator	1	8.5
Haynes St Utility Relocation-Construction	Motor Grader	1	8.5
Haynes St Utility Relocation-Construction	Wheel Loader	1	8.5
Haynes St Utility Relocation-Construction	Wheel Loader	1	8.5
Haynes St Utility Relocation-Construction	Pavement Saw	1	8.5
Haynes St Utility Relocation-Construction	Small Compactor	1	8.5
Haynes St Utility Relocation-Construction	Telescoping Fork	1	8.5
Haynes St Utility Relocation-Construction	Asphalt Paver	1	8.5
Haynes St Utility Relocation-Construction	Asphalt Roller	1	8.5
Haynes St Utility Relocation-Construction	Jack and Bore Rig	1	8.5

Sepulveda Transit Corridor Project - ALTERNATIVE 1

Off-Road Equipment Fleet

Phase Name	Equipment Type	Quantity	Usage (Hrs/day)
Missouri Ave Utility Relocation-Construction	Medium Excavator	1	8.5
Missouri Ave Utility Relocation-Construction	Small Excavator	1	8.5
Missouri Ave Utility Relocation-Construction	Motor Grader	1	8.5
Missouri Ave Utility Relocation-Construction	Wheel Loader	1	8.5
Missouri Ave Utility Relocation-Construction	Wheel Loader	1	8.5
Missouri Ave Utility Relocation-Construction	Pavement Saw	1	8.5
Missouri Ave Utility Relocation-Construction	Small Compactor	1	8.5
Missouri Ave Utility Relocation-Construction	Telescoping Fork	1	8.5
Missouri Ave Utility Relocation-Construction	Asphalt Paver	1	8.5
Missouri Ave Utility Relocation-Construction	Asphalt Roller	1	8.5
Missouri Ave Utility Relocation-Construction	Jack and Bore Rig	1	8.5
La Grange Ave Utility Relocation-Construction	Medium Excavator	1	8.5
La Grange Ave Utility Relocation-Construction	Small Excavator	1	8.5
La Grange Ave Utility Relocation-Construction	Motor Grader	1	8.5
La Grange Ave Utility Relocation-Construction	Wheel Loader	1	8.5
La Grange Ave Utility Relocation-Construction	Wheel Loader	1	8.5
La Grange Ave Utility Relocation-Construction	Pavement Saw	1	8.5
La Grange Ave Utility Relocation-Construction	Small Compactor	1	8.5
La Grange Ave Utility Relocation-Construction	Telescoping Fork	1	8.5
La Grange Ave Utility Relocation-Construction	Asphalt Paver	1	8.5
La Grange Ave Utility Relocation-Construction	Asphalt Roller	1	8.5
La Grange Ave Utility Relocation-Construction	Jack and Bore Rig	1	8.5
Mississippi Ave Utility Relocation-Construction	Medium Excavator	1	8.5
Mississippi Ave Utility Relocation-Construction	Small Excavator	1	8.5
Mississippi Ave Utility Relocation-Construction	Motor Grader	1	8.5
Mississippi Ave Utility Relocation-Construction	Wheel Loader	1	8.5
Mississippi Ave Utility Relocation-Construction	Wheel Loader	1	8.5
Mississippi Ave Utility Relocation-Construction	Pavement Saw	1	8.5
Mississippi Ave Utility Relocation-Construction	Small Compactor	1	8.5
Mississippi Ave Utility Relocation-Construction	Telescoping Fork	1	8.5
Mississippi Ave Utility Relocation-Construction	Asphalt Paver	1	8.5
Mississippi Ave Utility Relocation-Construction	Asphalt Roller	1	8.5
Mississippi Ave Utility Relocation-Construction	Jack and Bore Rig	1	8.5
I-405 Improvements-Utility Relocation	Medium Excavator	1	8.5
I-405 Improvements-Utility Relocation	Small Excavator	1	8.5
I-405 Improvements-Utility Relocation	Motor Grader	1	8.5
I-405 Improvements-Utility Relocation	Wheel Loader	1	8.5
I-405 Improvements-Utility Relocation	Pavement Saw	1	8.5
I-405 Improvements-Utility Relocation	Small Compactor	1	8.5
I-405 Improvements-Utility Relocation	Telescoping Fork	1	8.5
I-405 Improvements-Demolition/Site Preparation	Large Excavator	4	8.5
I-405 Improvements-Demolition/Site Preparation	Wheel Loader	4	8.5
I-405 Improvements-Demolition/Site Preparation	Dozer	4	8.5
I-405 Improvements-Demolition/Site Preparation	Compactor	4	8.5
I-405 Improvements-Grading/Excavation	Large Excavator	4	8.5
I-405 Improvements-Grading/Excavation	Motor Grader	4	8.5
I-405 Improvements-Grading/Excavation	Wheel Loader	4	8.5
I-405 Improvements-Grading/Excavation	Dozer-1ea	8	8.5
I-405 Improvements-Grading/Excavation	623 Scraper	4	8.5
I-405 Improvements-Grading/Excavation	Compactor	4	8.5
I-405 Improvements-Concrete Work	Compactor	4	8.5
I-405 Improvements-Concrete Work	Telescoping Fork	4	8.5
I-405 Improvements-Concrete Work	Slip Form Paver	2	8.5
Precast Yard-Demolition/Site Preparation	Medium Excavator	1	8.5
Precast Yard-Demolition/Site Preparation	Small Excavator	1	8.5
Precast Yard-Demolition/Site Preparation	Motor Grader	1	8.5
Precast Yard-Demolition/Site Preparation	Wheel Loader	1	8.5
Precast Yard-Demolition/Site Preparation	Pavement Saw	1	8.5
Precast Yard-Demolition/Site Preparation	Small Compactor	1	8.5
Precast Yard-Demolition/Site Preparation	Telescoping Fork	1	8.5
Precast Yard-Grading/Excavation	Large Excavator	1	8.5
Precast Yard-Grading/Excavation	Small Excavator	1	8.5
Precast Yard-Grading/Excavation	Motor Grader	1	8.5
Precast Yard-Grading/Excavation	Wheel Loader	2	8.5
Precast Yard-Grading/Excavation	Dozer	1	8.5
Precast Yard-Grading/Excavation	623 Scraper	2	8.5
Precast Yard-Grading/Excavation	Compactor	2	8.5

Sepulveda Transit Corridor Project - ALTERNATIVE 1

Off-Road Equipment Fleet

Phase Name	Equipment Type	Quantity	Usage (Hrs/day)
Precast Yard-Concrete Work	Gantry Crane	1	8.5
Precast Yard-Concrete Work	RTG Crane	4	8.5
Precast Yard-Concrete Work	Hydraulic Crane	2	8.5
Precast Yard-Concrete Work	Telescoping Fork	4	8.5
Precast Yard-Concrete Work	Wheel Loader	2	8.5
Precast Yard-Concrete Work	Concrete Pump	2	8.5
Precast Yard-Concrete Work	Manlift	2	8.5
Precast Yard-Utility Work	Medium Excavator	1	8.5
Precast Yard-Utility Work	Small Excavator	1	8.5
Precast Yard-Utility Work	Motor Grader	1	8.5
Precast Yard-Utility Work	Wheel Loader	1	8.5
Precast Yard-Utility Work	Pavement Saw	1	8.5
Precast Yard-Utility Work	Small Compactor	1	8.5
Precast Yard-Utility Work	Telescoping Fork	1	8.5
Precast Yard-Paving	Motor Grader	1	8.5
Precast Yard-Paving	Wheel Loader	2	8.5
Precast Yard-Paving	Dozer	1	8.5
Precast Yard-Paving	Compactor	2	8.5
Precast Yard-Paving	Asphalt Paver	1	8.5
Precast Yard-Paving	Asphalt roller	2	8.5
Precast Yard-Guideway Fabrication	Cranes	4	8.5
Precast Yard-Guideway Fabrication	Rough Terrain Forklifts	2	8.5
Precast Yard-Guideway Fabrication	Concrete Pumps	4	8.5

Sepulveda Transit Corridor Project - ALTERNATIVE 1

DUST CONTROL MEASURES/ASSUMPTIONS

General Construction Assumptions	Value
Onsite Vehicle Speed (mph):	15
Onsite Trip Length (miles):	0.10
Number of Watering Events per Day:	3
General Worksite Dust Reduction (%)	74%

Dust Control Measures[1]

Activity Area	Control Measure	Control Efficiency (%)	Additional Notes
General Worksite	Apply water at various intervals to disturbed areas within construction site (**3.2-hour watering interval)**	61%	If using this reduction, account for 2 water trucks trips per day (4 one-way trips/2 onsite trips)
General Worksite	Apply water at various intervals to disturbed areas within construction site (**2.1-hour watering interval)**	74%	If using this reduction, account for 3 water trucks trips per day (6 one-way trips/3 onsite trips)
Unpaved Roads	Implement watering twice a day for industrial unpaved road.	55%	The analysis assumes water trucks used for general worksite would also water unpaved roads and provide water during demolition activities. The AQ analysis assumes 3 water trucks per day,
Demolition Activities	Apply water every 4 hours to the area within 100 feet of a structure being demolished, to reduce vehicle trackout.	36%	

Notes:

1. Western Regional Air Partnership (WRAP) Fugitive Dust Handbook. September 7, 2006. Prepared by Countess Environmental

Sepulveda Transit Corridor Project - ALTERNATIVE 1

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Emission Factor (g/bhp-hr)[3] ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.35	3.29	4.26	0.01	-	0.05	0.05	-	0.04	0.04	574.49	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.34	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.33	3.30	4.19	0.01	-	0.07	0.07	-	0.06	0.06	588.07	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.33	3.30	4.19	0.01	-	0.07	0.07	-	0.06	0.06	588.07	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.34	3.25	4.24	0.01	-	0.04	0.04	-	0.04	0.04	574.00	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.37	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	7	8.5	83	0.5	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.33	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Crawler Crane	Cranes	7	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Hydraulic Crane	Cranes	7	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Telescoping Fork	Rough Terrain Forklifts	14	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	7	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Med. Excavator	Excavators	7	8.5	36	0.38	Diesel	Fleet Avg	0.29	3.27	4.15	0.01	-	0.05	0.05	-	0.05	0.05	588.07	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Concrete Pump	Pumps	7	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.33	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Generator	Generator Sets	14	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.26	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.27	3.21	4.12	0.01	-	0.03	0.03	-	0.03	0.03	588.07	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.33	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.32	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.32	0.02	0.00
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.35	3.29	4.26	0.01	-	0.05	0.05	-	0.04	0.04	574.49	0.02	0.00
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.34	0.02	0.00
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.33	3.30	4.19	0.01	-	0.07	0.07	-	0.06	0.06	588.07	0.02	0.00
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.33	3.30	4.19	0.01	-	0.07	0.07	-	0.06	0.06	588.07	0.02	0.00
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.34	3.25	4.24	0.01	-	0.04	0.04	-	0.04	0.04	574.00	0.02	0.00
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.37	0.02	0.00
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH	6/1/2032	3/31/2035	5	739	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	3	8.5	83	0.5	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.33	0.02	0.00
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH	6/1/2032	3/31/2035	5	739	10	2032	Crawler Crane	Cranes	3	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH	6/1/2032	3/31/2035	5	739	10	2032	Hydraulic Crane	Cranes	3	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH	6/1/2032	3/31/2035	5	739	10	2032	Telescoping Fork	Rough Terrain Forklifts	6	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH	6/1/2032	3/31/2035	5	739	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	3	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH	6/1/2032	3/31/2035	5	739	10	2032	Med. Excavator	Excavators	3	8.5	36	0.38	Diesel	Fleet Avg	0.29	3.27	4.15	0.01	-	0.05	0.05	-	0.05	0.05	588.07	0.02	0.00
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH	6/1/2032	3/31/2035	5	739	10	2032	Concrete Pump	Pumps	3	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.33	0.02	0.00
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH	6/1/2032	3/31/2035	5	739	10	2032	Generator	Generator Sets	6	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.26	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembl	4/1/2035	8/31/2035	5	110	10	2035	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembl	4/1/2035	8/31/2035	5	110	10	2035	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembl	4/1/2035	8/31/2035	5	110	10	2035	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembl	4/1/2035	8/31/2035	5	110	10	2035	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembl	4/1/2035	8/31/2035	5	110	10	2035	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.27	3.21	4.12	0.01	-	0.03	0.03	-	0.03	0.03	588.07	0.02	0.00
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembl	4/1/2035	8/31/2035	5	110	10	2035	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.33	0.02	0.00
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembl	4/1/2035	8/31/2035	5	110	10	2035	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.32	0.02	0.00
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	9/1/2035	10/31/2035	5	43	10	2035	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	9/1/2035	10/31/2035	5	43	10	2035	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	9/1/2035	10/31/2035	5	43	10	2035	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.32	0.02	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.35	3.29	4.26	0.01	-	0.05	0.05	-	0.04	0.04	574.49	0.02	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.34	0.02	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.33	3.30	4.19	0.01	-	0.07	0.07	-	0.06	0.06	588.07	0.02	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.33	3.30	4.19	0.01	-	0.07	0.07	-	0.06	0.06	588.07	0.02	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.34	3.25	4.24	0.01	-	0.04	0.04	-	0.04	0.04	574.00	0.02	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.37	0.02	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 1

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Daily Emissions (lb/day) ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.16	1.49	1.92	0.00	-	0.02	0.02	-	0.02	0.02	259.3	0.01	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.08	0.85	1.07	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.08	0.85	1.07	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.15	1.47	1.91	0.00	-	0.02	0.02	-	0.02	0.02	259.1	0.01	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	7	8.5	83	0.5	Diesel	Tier 4 Final	0.27	1.42	20.14	0.03	-	0.05	0.05	-	0.05	0.05	2848.9	0.12	0.02
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Crawler Crane	Cranes	7	8.5	367	0.29	Diesel	Tier 4 Final	0.70	3.63	36.30	0.07	-	0.14	0.14	-	0.14	0.14	7366.0	0.30	0.06
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Hydraulic Crane	Cranes	7	8.5	367	0.29	Diesel	Tier 4 Final	0.70	3.63	36.30	0.07	-	0.14	0.14	-	0.14	0.14	7366.0	0.30	0.06
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Telescoping Fork	Rough Terrain Forklifts	14	8.5	96	0.4	Diesel	Tier 4 Final	0.50	2.62	37.27	0.05	-	0.10	0.10	-	0.10	0.10	5326.5	0.22	0.04
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	7	8.5	84	0.37	Diesel	Tier 4 Final	0.20	1.06	15.08	0.02	-	0.04	0.04	-	0.04	0.04	2157.8	0.09	0.02
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Med. Excavator	Excavators	7	8.5	36	0.38	Diesel	Fleet Avg	0.52	5.87	7.44	0.01	-	0.09	0.09	-	0.08	0.08	1055.3	0.04	0.01
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Concrete Pump	Pumps	7	8.5	11	0.74	Diesel	Fleet Avg	0.59	4.52	3.18	0.01	-	0.18	0.18	-	0.16	0.16	606.8	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Generator	Generator Sets	14	8.5	14	0.74	Diesel	Fleet Avg	1.45	11.57	7.72	0.02	-	0.45	0.45	-	0.41	0.41	1544.6	0.06	0.01
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.82	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.08	0.64	0.45	0.00	-	0.02	0.02	-	0.02	0.02	86.7	0.00	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.16	1.49	1.92	0.00	-	0.02	0.02	-	0.02	0.02	259.3	0.01	0.00
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.08	0.85	1.07	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.08	0.85	1.07	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.15	1.47	1.91	0.00	-	0.02	0.02	-	0.02	0.02	259.1	0.01	0.00
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH	6/1/2032	3/31/2035	5	739	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	3	8.5	83	0.5	Diesel	Tier 4 Final	0.12	0.61	8.63	0.01	-	0.02	0.02	-	0.02	0.02	1220.9	0.05	0.01
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH	6/1/2032	3/31/2035	5	739	10	2032	Crawler Crane	Cranes	3	8.5	367	0.29	Diesel	Tier 4 Final	0.30	1.56	15.56	0.03	-	0.06	0.06	-	0.06	0.06	3156.8	0.13	0.03
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH	6/1/2032	3/31/2035	5	739	10	2032	Hydraulic Crane	Cranes	3	8.5	367	0.29	Diesel	Tier 4 Final	0.30	1.56	15.56	0.03	-	0.06	0.06	-	0.06	0.06	3156.8	0.13	0.03
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH	6/1/2032	3/31/2035	5	739	10	2032	Telescoping Fork	Rough Terrain Forklifts	6	8.5	96	0.4	Diesel	Tier 4 Final	0.22	1.12	15.97	0.02	-	0.04	0.04	-	0.04	0.04	2282.8	0.09	0.02
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH	6/1/2032	3/31/2035	5	739	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	3	8.5	84	0.37	Diesel	Tier 4 Final	0.09	0.45	6.46	0.01	-	0.02	0.02	-	0.02	0.02	924.8	0.04	0.01
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH	6/1/2032	3/31/2035	5	739	10	2032	Med. Excavator	Excavators	3	8.5	36	0.38	Diesel	Fleet Avg	0.22	2.52	3.19	0.00	-	0.04	0.04	-	0.03	0.03	452.3	0.02	0.00
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH	6/1/2032	3/31/2035	5	739	10	2032	Concrete Pump	Pumps	3	8.5	11	0.74	Diesel	Fleet Avg	0.25	1.94	1.36	0.00	-	0.08	0.08	-	0.07	0.07	260.1	0.01	0.00
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH	6/1/2032	3/31/2035	5	739	10	2032	Generator	Generator Sets	6	8.5	14	0.74	Diesel	Fleet Avg	0.62	4.96	3.31	0.01	-	0.19	0.19	-	0.18	0.18	662.0	0.03	0.01
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembl	4/1/2035	8/31/2035	5	110	10	2035	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembl	4/1/2035	8/31/2035	5	110	10	2035	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembl	4/1/2035	8/31/2035	5	110	10	2035	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembl	4/1/2035	8/31/2035	5	110	10	2035	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembl	4/1/2035	8/31/2035	5	110	10	2035	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.82	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembl	4/1/2035	8/31/2035	5	110	10	2035	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.08	0.64	0.45	0.00	-	0.02	0.02	-	0.02	0.02	86.7	0.00	0.00
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembl	4/1/2035	8/31/2035	5	110	10	2035	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	9/1/2035	10/31/2035	5	43	10	2035	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	9/1/2035	10/31/2035	5	43	10	2035	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	9/1/2035	10/31/2035	5	43	10	2035	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.16	1.49	1.92	0.00	-	0.02	0.02	-	0.02	0.02	259.3	0.01	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.08	0.85	1.07	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.08	0.85	1.07	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.15	1.47	1.91	0.00	-	0.02	0.02	-	0.02	0.02	259.1	0.01	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 1

OFFROAD EQUIPMENT (ONSITE)[1]

															Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.05	0.44	0.57	0.00	-	0.01	0.01	-	0.01	0.01	71.5	0.00	0.00	71.7
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.05	0.44	0.57	0.00	-	0.01	0.01	-	0.01	0.01	71.5	0.00	0.00	71.7
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.03	0.15	2.20	0.00	-	0.01	0.01	-	0.01	0.01	286.2	0.01	0.00	287.2
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.02	0.08	1.13	0.00	-	0.00	0.00	-	0.00	0.00	146.1	0.01	0.00	146.6
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.08	0.78	1.00	0.00	-	0.01	0.01	-	0.01	0.01	122.9	0.00	0.00	123.4
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.02	0.14	0.12	0.00	-	0.01	0.01	-	0.01	0.01	17.4	0.00	0.00	17.4
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.02	0.10	1.39	0.00	-	0.00	0.00	-	0.00	0.00	180.3	0.01	0.00	181.0
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.03	0.28	0.35	0.00	-	0.01	0.01	-	0.01	0.01	44.8	0.00	0.00	44.9
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.03	0.28	0.35	0.00	-	0.01	0.01	-	0.01	0.01	44.8	0.00	0.00	44.9
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.02	0.10	1.38	0.00	-	0.00	0.00	-	0.00	0.00	179.4	0.01	0.00	180.0
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.01	0.05	0.71	0.00	-	0.00	0.00	-	0.00	0.00	91.6	0.00	0.00	91.9
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.05	0.48	0.63	0.00	-	0.01	0.01	-	0.01	0.01	77.0	0.00	0.00	77.2
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.01	0.09	0.07	0.00	-	0.00	0.00	-	0.00	0.00	10.9	0.00	0.00	10.9
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.01	0.06	0.87	0.00	-	0.00	0.00	-	0.00	0.00	113.0	0.00	0.00	113.4
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	7	8.5	83	0.5	Diesel	Tier 4 Final	0.12	0.60	8.53	0.01	-	0.02	0.02	-	0.02	0.02	1094.5	0.04	0.01	1098.3
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Crawler Crane	Cranes	7	8.5	367	0.29	Diesel	Tier 4 Final	0.30	1.54	15.37	0.03	-	0.06	0.06	-	0.06	0.06	2830.0	0.11	0.02	2839.7
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Hydraulic Crane	Cranes	7	8.5	367	0.29	Diesel	Tier 4 Final	0.30	1.54	15.37	0.03	-	0.06	0.06	-	0.06	0.06	2830.0	0.11	0.02	2839.7
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Telescoping Fork	Rough Terrain Forklifts	14	8.5	96	0.4	Diesel	Tier 4 Final	0.21	1.11	15.79	0.02	-	0.04	0.04	-	0.04	0.04	2046.4	0.08	0.02	2053.4
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	7	8.5	84	0.37	Diesel	Tier 4 Final	0.09	0.45	6.39	0.01	-	0.02	0.02	-	0.02	0.02	829.0	0.03	0.01	831.8
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Med. Excavator	Excavators	7	8.5	36	0.38	Diesel	Fleet Avg	0.22	2.49	3.15	0.00	-	0.04	0.04	-	0.03	0.03	405.4	0.02	0.00	406.8
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Concrete Pump	Pumps	7	8.5	11	0.74	Diesel	Fleet Avg	0.25	1.91	1.34	0.00	-	0.07	0.07	-	0.07	0.07	233.1	0.01	0.00	233.9
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Generator	Generator Sets	14	8.5	14	0.74	Diesel	Fleet Avg	0.61	4.90	3.27	0.01	-	0.19	0.19	-	0.17	0.17	593.4	0.02	0.00	595.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.01	0.05	0.45	0.00	-	0.00	0.00	-	0.00	0.00	83.1	0.00	0.00	83.3
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.01	0.05	0.45	0.00	-	0.00	0.00	-	0.00	0.00	83.1	0.00	0.00	83.3
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.01	0.03	0.46	0.00	-	0.00	0.00	-	0.00	0.00	60.1	0.00	0.00	60.3
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.19	0.00	-	0.00	0.00	-	0.00	0.00	24.3	0.00	0.00	24.4
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.07	0.09	0.00	-	0.00	0.00	-	0.00	0.00	11.9	0.00	0.00	11.9
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.01	0.06	0.04	0.00	-	0.00	0.00	-	0.00	0.00	6.8	0.00	0.00	6.9
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.02	0.14	0.10	0.00	-	0.01	0.01	-	0.01	0.01	17.4	0.00	0.00	17.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.00	0.01	0.11	0.00	-	0.00	0.00	-	0.00	0.00	21.0	0.00	0.00	21.1
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.01	0.12	0.00	-	0.00	0.00	-	0.00	0.00	15.2	0.00	0.00	15.2
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.00	0.04	0.02	0.00	-	0.00	0.00	-	0.00	0.00	4.4	0.00	0.00	4.4
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.05	0.44	0.57	0.00	-	0.01	0.01	-	0.01	0.01	71.5	0.00	0.00	71.7
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.05	0.44	0.57	0.00	-	0.01	0.01	-	0.01	0.01	71.5	0.00	0.00	71.7
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.03	0.15	2.20	0.00	-	0.01	0.01	-	0.01	0.01	286.2	0.01	0.00	287.2
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.02	0.08	1.13	0.00	-	0.00	0.00	-	0.00	0.00	146.1	0.01	0.00	146.6
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.08	0.78	1.00	0.00	-	0.01	0.01	-	0.01	0.01	122.9	0.00	0.00	123.4
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.02	0.14	0.12	0.00	-	0.01	0.01	-	0.01	0.01	17.4	0.00	0.00	17.4
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.02	0.10	1.39	0.00	-	0.00	0.00	-	0.00	0.00	180.3	0.01	0.00	181.0
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.03	0.28	0.35	0.00	-	0.01	0.01	-	0.01	0.01	44.8	0.00	0.00	44.9
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.03	0.28	0.35	0.00	-	0.01	0.01	-	0.01	0.01	44.8	0.00	0.00	44.9
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.02	0.10	1.38	0.00	-	0.00	0.00	-	0.00	0.00	179.4	0.01	0.00	180.0
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.01	0.05	0.71	0.00	-	0.00	0.00	-	0.00	0.00	91.6	0.00	0.00	91.9
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.05	0.48	0.63	0.00	-	0.01	0.01	-	0.01	0.01	77.0	0.00	0.00	77.2
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.01	0.09	0.07	0.00	-	0.00	0.00	-	0.00	0.00	10.9	0.00	0.00	10.9
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.01	0.06	0.87	0.00	-	0.00	0.00	-	0.00	0.00	113.0	0.00	0.00	113.4
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH	6/1/2032	3/31/2035	5	739	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	3	8.5	83	0.5	Diesel	Tier 4 Final	0.04	0.22	3.19	0.00	-	0.01	0.01	-	0.01	0.01	409.3	0.02	0.00	410.7
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH	6/1/2032	3/31/2035	5	739	10	2032	Crawler Crane	Cranes	3	8.5	367	0.29	Diesel	Tier 4 Final	0.11	0.57	5.75	0.01	-	0.02	0.02	-	0.02	0.02	1058.2	0.04	0.01	1061.8
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH	6/1/2032	3/31/2035	5	739	10	2032	Hydraulic Crane	Cranes	3	8.5	367	0.29	Diesel	Tier 4 Final	0.11	0.57	5.75	0.01	-	0.02	0.02	-	0.02	0.02	1058.2	0.04	0.01	1061.8
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH	6/1/2032	3/31/2035	5	739	10	2032	Telescoping Fork	Rough Terrain Forklifts	6	8.5	96	0.4	Diesel	Tier 4 Final	0.08	0.41	5.90	0.01	-	0.02	0.02	-	0.02	0.02	765.2	0.03	0.01	767.8
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH	6/1/2032	3/31/2035	5	739	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	3	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.17	2.39	0.00	-	0.01	0.01	-	0.01	0.01	310.0	0.01	0.00	311.0
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH	6/1/2032	3/31/2035	5	739	10	2032	Med. Excavator	Excavators	3	8.5	36	0.38	Diesel	Fleet Avg	0.08	0.93	1.18	0.00	-	0.01	0.01	-	0.01	0.01	151.6	0.01	0.00	152.1
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH	6/1/2032	3/31/2035	5	739	10	2032	Concrete Pump	Pumps	3	8.5	11	0.74	Diesel	Fleet Avg	0.09	0.72	0.50	0.00	-	0.03	0.03	-	0.03	0.03	87.2	0.00	0.00	87.5
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH	6/1/2032	3/31/2035	5	739	10	2032	Generator	Generator Sets	6	8.5	14	0.74	Diesel	Fleet Avg	0.23	1.83	1.22	0.00	-	0.07	0.07	-	0.07	0.07	221.9	0.01	0.00	222.7
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembl	4/1/2035	8/31/2035	5	110	10	2035	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.01	0.03	0.29	0.00	-	0.00	0.00	-	0.00	0.00	52.5	0.00	0.00	52.7
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembl	4/1/2035	8/31/2035	5	110	10	2035	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.01	0.03	0.29	0.00	-	0.00	0.00	-	0.00	0.00	52.5	0.00	0.00	52.7
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembl	4/1/2035	8/31/2035	5	110	10	2035	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.02	0.29	0.00	-	0.00	0.00	-	0.00	0.00	38.0	0.00	0.00	38.1
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembl	4/1/2035	8/31/2035	5	110	10	2035	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.12	0.00	-	0.00	0.00	-	0.00	0.00	15.4	0.00	0.00	15.4
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembl	4/1/2035	8/31/2035	5	110	10	2035	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.05	0.06	0.00	-	0.00	0.00	-	0.00	0.00	7.5	0.00	0.00	7.5
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembl	4/1/2035	8/31/2035	5	110	10	2035	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.00	0.04	0.02	0.00	-	0.00	0.00	-	0.00	0.00	4.3	0.00	0.00	4.3
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembl	4/1/2035	8/31/2035	5	110	10	2035	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.01	0.09	0.06	0.00	-	0.00	0.00	-	0.00	0.00	11.0	0.00	0.00	11.0
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	9/1/2035	10/31/2035	5	43	10	2035	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.00	0.01	0.11	0.00	-	0.00	0.00	-	0.00	0.00	20.5	0.00	0.00	20.6
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	9/1/2035	10/31/2035	5	43	10	2035	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.01	0.11	0.00	-	0.00	0.00	-	0.00	0.00	14.8	0.00	0.00	14.9
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	9/1/2035	10/31/2035	5	43	10	2035	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.00	0.04	0.02	0.00	-	0.00	0.00	-	0.00	0.00	4.3	0.00	0.00	4.3
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.05	0.44	0.57	0.00	-	0.01	0.01	-	0.01	0.01	71.5	0.00	0.00	71.7
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.05	0.44	0.57	0.00	-	0.01	0.01	-	0.01	0.01	71.5	0.00	0.00	71.7
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.03	0.15	2.20	0.00	-	0.01	0.01	-	0.01	0.01	286.2	0.01	0.00	287.2
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.02	0.08	1.13	0.00	-	0.00	0.00	-	0.00	0.00	146.1	0.01	0.00	146.6
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.08	0.78	1.00	0.00	-	0.01	0.01	-	0.01	0.01	122.9	0.00	0.00	123.4
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.02	0.14	0.12	0.00	-	0.01	0.01	-	0.01	0.01	17.4	0.00	0.00	17.4
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.02	0.10	1.39	0.00	-	0.00	0.00	-	0.00	0.00	180.3	0.01	0.00	181.0
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.03	0.28	0.35	0.00	-	0.01	0.01	-	0.01	0.01	44.8	0.00	0.00	44.9
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.03	0.28	0.35	0.00	-	0.01	0.01	-	0.01	0.01	44.8	0.00	0.00	44.9
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.02	0.10	1.38	0.00	-	0.00	0.00	-	0.00	0.00	179.4	0.01	0.00	180.0
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.01	0.05	0.71	0.00	-	0.00	0.00	-	0.00	0.00	91.6	0.00	0.00	91.9
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.05	0.48	0.63	0.00	-	0.01	0.01	-	0.01	0.01	77.0	0.00	0.00	77.2
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.01	0.09	0.07	0.00	-	0.00	0.00	-	0.00	0.00	10.9	0.00	0.00	10.9
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.01	0.06	0.87	0.00	-	0.00	0.00	-	0.00	0.00	113.0	0.00	0.00	113.4

Sepulveda Transit Corridor Project - ALTERNATIVE 1

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Emission Factor (g/bhp-hr)[3] ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.33	0.02	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	2032	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	2032	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	2032	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	2032	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.29	3.27	4.15	0.01	-	0.05	0.05	-	0.05	0.05	588.07	0.02	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	2032	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.33	0.02	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	2032	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.26	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	2033	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	2033	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	2033	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.31	0.02	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	9/1/2033	10/31/2035	5	565	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	9/1/2033	10/31/2035	5	565	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	9/1/2033	10/31/2035	5	565	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.31	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.35	3.29	4.26	0.01	-	0.05	0.05	-	0.04	0.04	574.49	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.34	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.33	3.30	4.19	0.01	-	0.07	0.07	-	0.06	0.06	588.07	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.33	3.30	4.19	0.01	-	0.07	0.07	-	0.06	0.06	588.07	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.34	3.25	4.24	0.01	-	0.04	0.04	-	0.04	0.04	574.00	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.37	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	2	8.5	83	0.5	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.33	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	2032	Crawler Crane	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	2032	Hydraulic Crane	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	2032	Telescoping Fork	Rough Terrain Forklifts	4	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	2032	Med. Excavator	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.29	3.27	4.15	0.01	-	0.05	0.05	-	0.05	0.05	588.07	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	2032	Concrete Pump	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.33	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	2032	Generator	Generator Sets	4	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.26	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembl	5/1/2033	10/31/2033	5	131	10	2033	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembl	5/1/2033	10/31/2033	5	131	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembl	5/1/2033	10/31/2033	5	131	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembl	5/1/2033	10/31/2033	5	131	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembl	5/1/2033	10/31/2033	5	131	10	2033	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembl	5/1/2033	10/31/2033	5	131	10	2033	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembl	5/1/2033	10/31/2033	5	131	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.31	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.31	0.02	0.00
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.35	3.29	4.26	0.01	-	0.05	0.05	-	0.04	0.04	574.49	0.02	0.00
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.34	0.02	0.00
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.31	3.28	4.17	0.01	-	0.06	0.06	-	0.05	0.05	588.07	0.02	0.00
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.31	3.28	4.17	0.01	-	0.06	0.06	-	0.05	0.05	588.07	0.02	0.00
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.33	3.22	4.23	0.01	-	0.04	0.04	-	0.03	0.03	573.27	0.02	0.00
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.29	0.02	0.00
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.33	0.02	0.00
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.29	3.27	4.15	0.01	-	0.05	0.05	-	0.05	0.05	588.07	0.02	0.00
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.33	0.02	0.00
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.26	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.31	0.02	0.00
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.31	0.02	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 1

OFFROAD EQUIPMENT (ONSITE)[1]

															Daily Emissions (lb/day)												
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Hours per Workday**	**First Year of CSTN**	**Equipment Type (Cranes, Bulldozer, etc.)**	**CalEEMod Equipment Type**	**Quantity**	**Daily Usage (hours)**	**HP[2]**	**LF[2]**	**Fuel Type**	**Engine Tier**	**ROG**	**NO_X**	**CO**	**SO_X**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**	**CO_2**	**CH_4**	**N_2O**
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.04	0.20	2.88	0.00	-	0.01	0.01	-	0.01	0.01	407.0	0.02	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	2032	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	2032	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	2032	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	2032	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	2032	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.08	0.65	0.45	0.00	-	0.03	0.03	-	0.02	0.02	86.7	0.00	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	2032	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	2033	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	2033	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	2033	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.08	0.65	0.45	0.00	-	0.02	0.02	-	0.02	0.02	86.7	0.00	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	9/1/2033	10/31/2035	5	565	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	9/1/2033	10/31/2035	5	565	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	9/1/2033	10/31/2035	5	565	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.16	1.49	1.92	0.00	-	0.02	0.02	-	0.02	0.02	259.3	0.01	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.08	0.85	1.07	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.08	0.85	1.07	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.15	1.47	1.91	0.00	-	0.02	0.02	-	0.02	0.02	259.1	0.01	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	2	8.5	83	0.5	Diesel	Tier 4 Final	0.08	0.40	5.75	0.01	-	0.02	0.02	-	0.02	0.02	814.0	0.03	0.01
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	2032	Crawler Crane	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.20	1.04	10.37	0.02	-	0.04	0.04	-	0.04	0.04	2104.6	0.09	0.02
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	2032	Hydraulic Crane	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.20	1.04	10.37	0.02	-	0.04	0.04	-	0.04	0.04	2104.6	0.09	0.02
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	2032	Telescoping Fork	Rough Terrain Forklifts	4	8.5	96	0.4	Diesel	Tier 4 Final	0.14	0.75	10.65	0.01	-	0.03	0.03	-	0.03	0.03	1521.9	0.06	0.01
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.06	0.30	4.31	0.01	-	0.01	0.01	-	0.01	0.01	616.5	0.03	0.01
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	2032	Med. Excavator	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.15	1.68	2.13	0.00	-	0.03	0.03	-	0.02	0.02	301.5	0.01	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	2032	Concrete Pump	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.17	1.29	0.91	0.00	-	0.05	0.05	-	0.05	0.05	173.4	0.01	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	2032	Generator	Generator Sets	4	8.5	14	0.74	Diesel	Fleet Avg	0.41	3.30	2.20	0.01	-	0.13	0.13	-	0.12	0.12	441.3	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembl	5/1/2033	10/31/2033	5	131	10	2033	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembl	5/1/2033	10/31/2033	5	131	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembl	5/1/2033	10/31/2033	5	131	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembl	5/1/2033	10/31/2033	5	131	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembl	5/1/2033	10/31/2033	5	131	10	2033	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembl	5/1/2033	10/31/2033	5	131	10	2033	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.08	0.65	0.45	0.00	-	0.02	0.02	-	0.02	0.02	86.7	0.00	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembl	5/1/2033	10/31/2033	5	131	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.16	1.49	1.92	0.00	-	0.02	0.02	-	0.02	0.02	259.3	0.01	0.00
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.08	0.84	1.07	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.08	0.84	1.07	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.15	1.45	1.91	0.00	-	0.02	0.02	-	0.02	0.02	258.8	0.01	0.00
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.04	0.20	2.88	0.00	-	0.01	0.01	-	0.01	0.01	407.0	0.02	0.00
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.08	0.65	0.45	0.00	-	0.03	0.03	-	0.02	0.02	86.7	0.00	0.00
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.08	0.65	0.45	0.00	-	0.02	0.02	-	0.02	0.02	86.7	0.00	0.00
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 1

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Total Emissions (tons) ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	Total Emissions (metric tons) CO_2	CH_4	N_2O	CO_2e
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.00	0.02	0.34	0.00	-	0.00	0.00	-	0.00	0.00	44.1	0.00	0.00	44.3
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	2032	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.01	0.06	0.62	0.00	-	0.00	0.00	-	0.00	0.00	114.1	0.00	0.00	114.5
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	2032	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.01	0.06	0.62	0.00	-	0.00	0.00	-	0.00	0.00	114.1	0.00	0.00	114.5
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	2032	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.01	0.04	0.64	0.00	-	0.00	0.00	-	0.00	0.00	82.5	0.00	0.00	82.8
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.02	0.26	0.00	-	0.00	0.00	-	0.00	0.00	33.4	0.00	0.00	33.5
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	2032	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.10	0.13	0.00	-	0.00	0.00	-	0.00	0.00	16.3	0.00	0.00	16.4
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	2032	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.01	0.08	0.05	0.00	-	0.00	0.00	-	0.00	0.00	9.4	0.00	0.00	9.4
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	2032	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.02	0.20	0.13	0.00	-	0.01	0.01	-	0.01	0.01	23.9	0.00	0.00	24.0
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	2033	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.01	0.03	0.34	0.00	-	0.00	0.00	-	0.00	0.00	63.0	0.00	0.00	63.2
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.01	0.03	0.34	0.00	-	0.00	0.00	-	0.00	0.00	63.0	0.00	0.00	63.2
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.02	0.35	0.00	-	0.00	0.00	-	0.00	0.00	45.6	0.00	0.00	45.7
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.14	0.00	-	0.00	0.00	-	0.00	0.00	18.5	0.00	0.00	18.5
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	2033	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.06	0.07	0.00	-	0.00	0.00	-	0.00	0.00	9.0	0.00	0.00	9.1
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	2033	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.01	0.04	0.03	0.00	-	0.00	0.00	-	0.00	0.00	5.2	0.00	0.00	5.2
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.01	0.11	0.07	0.00	-	0.00	0.00	-	0.00	0.00	13.2	0.00	0.00	13.3
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	9/1/2033	10/31/2035	5	565	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.03	0.15	1.46	0.00	-	0.01	0.01	-	0.01	0.01	269.7	0.01	0.00	270.6
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	9/1/2033	10/31/2035	5	565	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.02	0.11	1.50	0.00	-	0.00	0.00	-	0.00	0.00	195.0	0.01	0.00	195.7
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	9/1/2033	10/31/2035	5	565	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.06	0.47	0.31	0.00	-	0.02	0.02	-	0.02	0.02	56.6	0.00	0.00	56.7
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.05	0.44	0.57	0.00	-	0.01	0.01	-	0.01	0.01	71.5	0.00	0.00	71.7
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.05	0.44	0.57	0.00	-	0.01	0.01	-	0.01	0.01	71.5	0.00	0.00	71.7
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.03	0.15	2.20	0.00	-	0.01	0.01	-	0.01	0.01	286.2	0.01	0.00	287.2
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.02	0.08	1.13	0.00	-	0.00	0.00	-	0.00	0.00	146.1	0.01	0.00	146.6
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.08	0.78	1.00	0.00	-	0.01	0.01	-	0.01	0.01	122.9	0.00	0.00	123.4
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.02	0.14	0.12	0.00	-	0.01	0.01	-	0.01	0.01	17.4	0.00	0.00	17.4
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.02	0.10	1.39	0.00	-	0.00	0.00	-	0.00	0.00	180.3	0.01	0.00	181.0
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.03	0.28	0.35	0.00	-	0.01	0.01	-	0.01	0.01	44.8	0.00	0.00	44.9
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.03	0.28	0.35	0.00	-	0.01	0.01	-	0.01	0.01	44.8	0.00	0.00	44.9
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.02	0.10	1.38	0.00	-	0.00	0.00	-	0.00	0.00	179.4	0.01	0.00	180.0
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.01	0.05	0.71	0.00	-	0.00	0.00	-	0.00	0.00	91.6	0.00	0.00	91.9
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.05	0.48	0.63	0.00	-	0.01	0.01	-	0.01	0.01	77.0	0.00	0.00	77.2
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.01	0.09	0.07	0.00	-	0.00	0.00	-	0.00	0.00	10.9	0.00	0.00	10.9
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.01	0.06	0.87	0.00	-	0.00	0.00	-	0.00	0.00	113.0	0.00	0.00	113.4
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	2	8.5	83	0.5	Diesel	Tier 4 Final	0.01	0.04	0.62	0.00	-	0.00	0.00	-	0.00	0.00	80.1	0.00	0.00	80.4
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	2032	Crawler Crane	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.02	0.11	1.13	0.00	-	0.00	0.00	-	0.00	0.00	207.2	0.01	0.00	207.9
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	2032	Hydraulic Crane	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.02	0.11	1.13	0.00	-	0.00	0.00	-	0.00	0.00	207.2	0.01	0.00	207.9
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	2032	Telescoping Fork	Rough Terrain Forklifts	4	8.5	96	0.4	Diesel	Tier 4 Final	0.02	0.08	1.16	0.00	-	0.00	0.00	-	0.00	0.00	149.8	0.01	0.00	150.3
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.01	0.03	0.47	0.00	-	0.00	0.00	-	0.00	0.00	60.7	0.00	0.00	60.9
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	2032	Med. Excavator	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.02	0.18	0.23	0.00	-	0.00	0.00	-	0.00	0.00	29.7	0.00	0.00	29.8
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	2032	Concrete Pump	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.02	0.14	0.10	0.00	-	0.01	0.01	-	0.01	0.01	17.1	0.00	0.00	17.1
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	2032	Generator	Generator Sets	4	8.5	14	0.74	Diesel	Fleet Avg	0.04	0.36	0.24	0.00	-	0.01	0.01	-	0.01	0.01	43.4	0.00	0.00	43.6
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembl	5/1/2033	10/31/2033	5	131	10	2033	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.01	0.03	0.34	0.00	-	0.00	0.00	-	0.00	0.00	62.5	0.00	0.00	62.7
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembl	5/1/2033	10/31/2033	5	131	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.01	0.03	0.34	0.00	-	0.00	0.00	-	0.00	0.00	62.5	0.00	0.00	62.7
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembl	5/1/2033	10/31/2033	5	131	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.02	0.35	0.00	-	0.00	0.00	-	0.00	0.00	45.2	0.00	0.00	45.4
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembl	5/1/2033	10/31/2033	5	131	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.14	0.00	-	0.00	0.00	-	0.00	0.00	18.3	0.00	0.00	18.4
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembl	5/1/2033	10/31/2033	5	131	10	2033	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.05	0.07	0.00	-	0.00	0.00	-	0.00	0.00	9.0	0.00	0.00	9.0
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembl	5/1/2033	10/31/2033	5	131	10	2033	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.01	0.04	0.03	0.00	-	0.00	0.00	-	0.00	0.00	5.2	0.00	0.00	5.2
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembl	5/1/2033	10/31/2033	5	131	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.01	0.11	0.07	0.00	-	0.00	0.00	-	0.00	0.00	13.1	0.00	0.00	13.2
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.00	0.01	0.11	0.00	-	0.00	0.00	-	0.00	0.00	21.0	0.00	0.00	21.1
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.01	0.12	0.00	-	0.00	0.00	-	0.00	0.00	15.2	0.00	0.00	15.2
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.00	0.04	0.02	0.00	-	0.00	0.00	-	0.00	0.00	4.4	0.00	0.00	4.4
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.03	0.28	0.35	0.00	-	0.01	0.01	-	0.01	0.01	44.5	0.00	0.00	44.7
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.03	0.28	0.35	0.00	-	0.01	0.01	-	0.01	0.01	44.5	0.00	0.00	44.7
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.02	0.10	1.37	0.00	-	0.00	0.00	-	0.00	0.00	178.3	0.01	0.00	178.9
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.01	0.05	0.70	0.00	-	0.00	0.00	-	0.00	0.00	91.0	0.00	0.00	91.3
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.05	0.48	0.63	0.00	-	0.01	0.01	-	0.01	0.01	76.6	0.00	0.00	76.8
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.01	0.09	0.07	0.00	-	0.00	0.00	-	0.00	0.00	10.8	0.00	0.00	10.9
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.01	0.06	0.87	0.00	-	0.00	0.00	-	0.00	0.00	112.3	0.00	0.00	112.7
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.08	0.11	0.00	-	0.00	0.00	-	0.00	0.00	13.5	0.00	0.00	13.5
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.08	0.11	0.00	-	0.00	0.00	-	0.00	0.00	13.5	0.00	0.00	13.5
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.01	0.03	0.41	0.00	-	0.00	0.00	-	0.00	0.00	54.0	0.00	0.00	54.1
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.21	0.00	-	0.00	0.00	-	0.00	0.00	27.5	0.00	0.00	27.6
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.01	0.14	0.19	0.00	-	0.00	0.00	-	0.00	0.00	23.1	0.00	0.00	23.2
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.03	0.02	0.00	-	0.00	0.00	-	0.00	0.00	3.3	0.00	0.00	3.3
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.02	0.26	0.00	-	0.00	0.00	-	0.00	0.00	34.0	0.00	0.00	34.1
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.00	0.02	0.34	0.00	-	0.00	0.00	-	0.00	0.00	43.9	0.00	0.00	44.1
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.01	0.06	0.62	0.00	-	0.00	0.00	-	0.00	0.00	113.6	0.00	0.00	114.0
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.01	0.06	0.62	0.00	-	0.00	0.00	-	0.00	0.00	113.6	0.00	0.00	114.0
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.01	0.04	0.63	0.00	-	0.00	0.00	-	0.00	0.00	82.1	0.00	0.00	82.4
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.02	0.26	0.00	-	0.00	0.00	-	0.00	0.00	33.3	0.00	0.00	33.4
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.10	0.13	0.00	-	0.00	0.00	-	0.00	0.00	16.3	0.00	0.00	16.3
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.01	0.08	0.05	0.00	-	0.00	0.00	-	0.00	0.00	9.4	0.00	0.00	9.4
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.02	0.20	0.13	0.00	-	0.01	0.01	-	0.01	0.01	23.8	0.00	0.00	23.9
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.00	0.01	0.06	0.00	-	0.00	0.00	-	0.00	0.00	11.0	0.00	0.00	11.0
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.00	0.01	0.06	0.00	-	0.00	0.00	-	0.00	0.00	11.0	0.00	0.00	11.0
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.00	0.06	0.00	-	0.00	0.00	-	0.00	0.00	7.9	0.00	0.00	8.0
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.00	0.02	0.00	-	0.00	0.00	-	0.00	0.00	3.2	0.00	0.00	3.2
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.01	0.01	0.00	-	0.00	0.00	-	0.00	0.00	1.6	0.00	0.00	1.6
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.00	0.01	0.01	0.00	-	0.00	0.00	-	0.00	0.00	0.9	0.00	0.00	0.9
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.00	0.02	0.01	0.00	-	0.00	0.00	-	0.00	0.00	2.3	0.00	0.00	2.3
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.02	0.13	1.29	0.00	-	0.00	0.00	-	0.00	0.00	238.2	0.01	0.00	239.0
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.02	0.09	1.33	0.00	-	0.00	0.00	-	0.00	0.00	172.2	0.01	0.00	172.8
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.05	0.41	0.28	0.00	-	0.02	0.02	-	0.01	0.01	49.9	0.00	0.00	50.1

Sepulveda Transit Corridor Project - ALTERNATIVE 1

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Emission Factor (g/bhp-hr)[3] ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.35	3.29	4.26	0.01	-	0.05	0.05	-	0.04	0.04	574.49	0.02	0.00
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.34	0.02	0.00
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.31	3.28	4.17	0.01	-	0.06	0.06	-	0.05	0.05	588.07	0.02	0.00
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.31	3.28	4.17	0.01	-	0.06	0.06	-	0.05	0.05	588.07	0.02	0.00
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.33	3.22	4.23	0.01	-	0.04	0.04	-	0.03	0.03	573.27	0.02	0.00
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.29	0.02	0.00
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.33	0.02	0.00
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.29	3.27	4.15	0.01	-	0.05	0.05	-	0.05	0.05	588.07	0.02	0.00
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.33	0.02	0.00
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.26	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.31	0.02	0.00
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.31	0.02	0.00
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.35	3.29	4.26	0.01	-	0.05	0.05	-	0.04	0.04	574.49	0.02	0.00
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.34	0.02	0.00
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.31	3.28	4.17	0.01	-	0.06	0.06	-	0.05	0.05	588.07	0.02	0.00
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.31	3.28	4.17	0.01	-	0.06	0.06	-	0.05	0.05	588.07	0.02	0.00
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.33	3.22	4.23	0.01	-	0.04	0.04	-	0.03	0.03	573.27	0.02	0.00
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.29	0.02	0.00
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.33	0.02	0.00
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.29	3.27	4.15	0.01	-	0.05	0.05	-	0.05	0.05	588.07	0.02	0.00
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.33	0.02	0.00
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.26	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.27	3.24	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.34	0.02	0.00
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.35	3.29	4.26	0.01	-	0.05	0.05	-	0.04	0.04	574.49	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.34	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 1

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Daily Emissions (lb/day) ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.16	1.49	1.92	0.00	-	0.02	0.02	-	0.02	0.02	259.3	0.01	0.00
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.08	0.84	1.07	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.08	0.84	1.07	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.15	1.45	1.91	0.00	-	0.02	0.02	-	0.02	0.02	258.8	0.01	0.00
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.04	0.20	2.88	0.00	-	0.01	0.01	-	0.01	0.01	407.0	0.02	0.00
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.08	0.65	0.45	0.00	-	0.03	0.03	-	0.02	0.02	86.7	0.00	0.00
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.08	0.65	0.45	0.00	-	0.02	0.02	-	0.02	0.02	86.7	0.00	0.00
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.16	1.49	1.92	0.00	-	0.02	0.02	-	0.02	0.02	259.3	0.01	0.00
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.08	0.84	1.07	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.08	0.84	1.07	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.15	1.45	1.91	0.00	-	0.02	0.02	-	0.02	0.02	258.8	0.01	0.00
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.04	0.20	2.88	0.00	-	0.01	0.01	-	0.01	0.01	407.0	0.02	0.00
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.08	0.65	0.45	0.00	-	0.03	0.03	-	0.02	0.02	86.7	0.00	0.00
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.83	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.08	0.64	0.45	0.00	-	0.02	0.02	-	0.02	0.02	86.7	0.00	0.00
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.16	1.49	1.92	0.00	-	0.02	0.02	-	0.02	0.02	259.3	0.01	0.00
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 1

OFFROAD EQUIPMENT (ONSITE)[1]

															Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.03	0.28	0.35	0.00	-	0.01	0.01	-	0.01	0.01	44.5	0.00	0.00	44.7
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.03	0.28	0.35	0.00	-	0.01	0.01	-	0.01	0.01	44.5	0.00	0.00	44.7
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.02	0.10	1.37	0.00	-	0.00	0.00	-	0.00	0.00	178.3	0.01	0.00	178.9
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.01	0.05	0.70	0.00	-	0.00	0.00	-	0.00	0.00	91.0	0.00	0.00	91.3
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.05	0.48	0.63	0.00	-	0.01	0.01	-	0.01	0.01	76.6	0.00	0.00	76.8
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.01	0.09	0.07	0.00	-	0.00	0.00	-	0.00	0.00	10.8	0.00	0.00	10.9
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.01	0.06	0.87	0.00	-	0.00	0.00	-	0.00	0.00	112.3	0.00	0.00	112.7
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.08	0.11	0.00	-	0.00	0.00	-	0.00	0.00	13.5	0.00	0.00	13.5
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.08	0.11	0.00	-	0.00	0.00	-	0.00	0.00	13.5	0.00	0.00	13.5
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.01	0.03	0.41	0.00	-	0.00	0.00	-	0.00	0.00	54.0	0.00	0.00	54.1
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.21	0.00	-	0.00	0.00	-	0.00	0.00	27.5	0.00	0.00	27.6
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.01	0.14	0.19	0.00	-	0.00	0.00	-	0.00	0.00	23.1	0.00	0.00	23.2
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.03	0.02	0.00	-	0.00	0.00	-	0.00	0.00	3.3	0.00	0.00	3.3
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.02	0.26	0.00	-	0.00	0.00	-	0.00	0.00	34.0	0.00	0.00	34.1
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.00	0.02	0.28	0.00	-	0.00	0.00	-	0.00	0.00	36.4	0.00	0.00	36.5
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.01	0.05	0.51	0.00	-	0.00	0.00	-	0.00	0.00	94.0	0.00	0.00	94.4
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.01	0.05	0.51	0.00	-	0.00	0.00	-	0.00	0.00	94.0	0.00	0.00	94.4
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.01	0.04	0.52	0.00	-	0.00	0.00	-	0.00	0.00	68.0	0.00	0.00	68.2
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.21	0.00	-	0.00	0.00	-	0.00	0.00	27.5	0.00	0.00	27.6
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.08	0.10	0.00	-	0.00	0.00	-	0.00	0.00	13.5	0.00	0.00	13.5
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.01	0.06	0.04	0.00	-	0.00	0.00	-	0.00	0.00	7.7	0.00	0.00	7.8
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.02	0.16	0.11	0.00	-	0.01	0.01	-	0.01	0.01	19.7	0.00	0.00	19.8
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.00	0.02	0.17	0.00	-	0.00	0.00	-	0.00	0.00	30.5	0.00	0.00	30.7
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.00	0.02	0.17	0.00	-	0.00	0.00	-	0.00	0.00	30.5	0.00	0.00	30.7
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.01	0.17	0.00	-	0.00	0.00	-	0.00	0.00	22.1	0.00	0.00	22.2
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.00	0.07	0.00	-	0.00	0.00	-	0.00	0.00	8.9	0.00	0.00	9.0
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.03	0.03	0.00	-	0.00	0.00	-	0.00	0.00	4.4	0.00	0.00	4.4
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.00	0.02	0.01	0.00	-	0.00	0.00	-	0.00	0.00	2.5	0.00	0.00	2.5
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.01	0.05	0.04	0.00	-	0.00	0.00	-	0.00	0.00	6.4	0.00	0.00	6.4
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.02	0.11	1.07	0.00	-	0.00	0.00	-	0.00	0.00	197.1	0.01	0.00	197.8
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.01	0.08	1.10	0.00	-	0.00	0.00	-	0.00	0.00	142.5	0.01	0.00	143.0
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.04	0.34	0.23	0.00	-	0.01	0.01	-	0.01	0.01	41.3	0.00	0.00	41.5
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.03	0.28	0.35	0.00	-	0.01	0.01	-	0.01	0.01	44.5	0.00	0.00	44.7
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.03	0.28	0.35	0.00	-	0.01	0.01	-	0.01	0.01	44.5	0.00	0.00	44.7
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.02	0.10	1.37	0.00	-	0.00	0.00	-	0.00	0.00	178.3	0.01	0.00	178.9
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.01	0.05	0.70	0.00	-	0.00	0.00	-	0.00	0.00	91.0	0.00	0.00	91.3
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.05	0.48	0.63	0.00	-	0.01	0.01	-	0.01	0.01	76.6	0.00	0.00	76.8
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.01	0.09	0.07	0.00	-	0.00	0.00	-	0.00	0.00	10.8	0.00	0.00	10.9
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.01	0.06	0.87	0.00	-	0.00	0.00	-	0.00	0.00	112.3	0.00	0.00	112.7
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.08	0.11	0.00	-	0.00	0.00	-	0.00	0.00	13.5	0.00	0.00	13.5
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.08	0.11	0.00	-	0.00	0.00	-	0.00	0.00	13.5	0.00	0.00	13.5
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.01	0.03	0.41	0.00	-	0.00	0.00	-	0.00	0.00	54.0	0.00	0.00	54.1
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.21	0.00	-	0.00	0.00	-	0.00	0.00	27.5	0.00	0.00	27.6
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.01	0.14	0.19	0.00	-	0.00	0.00	-	0.00	0.00	23.1	0.00	0.00	23.2
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.03	0.02	0.00	-	0.00	0.00	-	0.00	0.00	3.3	0.00	0.00	3.3
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.02	0.26	0.00	-	0.00	0.00	-	0.00	0.00	34.0	0.00	0.00	34.1
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.01	0.05	0.72	0.00	-	0.00	0.00	-	0.00	0.00	92.7	0.00	0.00	93.0
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.03	0.13	1.30	0.00	-	0.01	0.01	-	0.01	0.01	239.6	0.01	0.00	240.4
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.03	0.13	1.30	0.00	-	0.01	0.01	-	0.01	0.01	239.6	0.01	0.00	240.4
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.02	0.09	1.34	0.00	-	0.00	0.00	-	0.00	0.00	173.3	0.01	0.00	173.9
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.01	0.04	0.54	0.00	-	0.00	0.00	-	0.00	0.00	70.2	0.00	0.00	70.4
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.02	0.21	0.27	0.00	-	0.00	0.00	-	0.00	0.00	34.3	0.00	0.00	34.4
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.02	0.16	0.11	0.00	-	0.01	0.01	-	0.01	0.01	19.7	0.00	0.00	19.8
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.05	0.41	0.28	0.00	-	0.02	0.02	-	0.01	0.01	50.2	0.00	0.00	50.4
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.00	0.02	0.22	0.00	-	0.00	0.00	-	0.00	0.00	40.6	0.00	0.00	40.7
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.00	0.02	0.22	0.00	-	0.00	0.00	-	0.00	0.00	40.6	0.00	0.00	40.7
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.02	0.23	0.00	-	0.00	0.00	-	0.00	0.00	29.3	0.00	0.00	29.4
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.09	0.00	-	0.00	0.00	-	0.00	0.00	11.9	0.00	0.00	11.9
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.04	0.04	0.00	-	0.00	0.00	-	0.00	0.00	5.8	0.00	0.00	5.8
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.00	0.03	0.02	0.00	-	0.00	0.00	-	0.00	0.00	3.3	0.00	0.00	3.4
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.01	0.07	0.05	0.00	-	0.00	0.00	-	0.00	0.00	8.5	0.00	0.00	8.5
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.02	0.10	0.96	0.00	-	0.00	0.00	-	0.00	0.00	176.6	0.01	0.00	177.2
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.01	0.07	0.99	0.00	-	0.00	0.00	-	0.00	0.00	127.7	0.01	0.00	128.1
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.04	0.31	0.20	0.00	-	0.01	0.01	-	0.01	0.01	37.0	0.00	0.00	37.2
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.03	0.28	0.35	0.00	-	0.01	0.01	-	0.01	0.01	44.5	0.00	0.00	44.7
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.03	0.28	0.35	0.00	-	0.01	0.01	-	0.01	0.01	44.5	0.00	0.00	44.7
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.02	0.10	1.37	0.00	-	0.00	0.00	-	0.00	0.00	178.3	0.01	0.00	178.9
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.01	0.05	0.70	0.00	-	0.00	0.00	-	0.00	0.00	91.0	0.00	0.00	91.3
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.05	0.48	0.63	0.00	-	0.01	0.01	-	0.01	0.01	76.6	0.00	0.00	76.8
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.01	0.09	0.07	0.00	-	0.00	0.00	-	0.00	0.00	10.8	0.00	0.00	10.9
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.01	0.06	0.87	0.00	-	0.00	0.00	-	0.00	0.00	112.3	0.00	0.00	112.7

Sepulveda Transit Corridor Project - ALTERNATIVE 1

OFFROAD EQUIPMENT (ONSITE)[1]

															Emission Factor (g/bhp-hr)[3]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.31	3.28	4.17	0.01	-	0.06	0.06	-	0.05	0.05	588.07	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.31	3.28	4.17	0.01	-	0.06	0.06	-	0.05	0.05	588.07	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.33	3.22	4.23	0.01	-	0.04	0.04	-	0.03	0.03	573.27	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.29	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.33	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.29	3.27	4.15	0.01	-	0.05	0.05	-	0.05	0.05	588.07	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.33	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.26	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.31	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.31	0.02	0.00
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.35	3.29	4.26	0.01	-	0.05	0.05	-	0.04	0.04	574.49	0.02	0.00
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.34	0.02	0.00
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.31	3.28	4.17	0.01	-	0.06	0.06	-	0.05	0.05	588.07	0.02	0.00
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.31	3.28	4.17	0.01	-	0.06	0.06	-	0.05	0.05	588.07	0.02	0.00
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.33	3.22	4.23	0.01	-	0.04	0.04	-	0.03	0.03	573.27	0.02	0.00
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.29	0.02	0.00
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.33	0.02	0.00
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.29	3.27	4.15	0.01	-	0.05	0.05	-	0.05	0.05	588.07	0.02	0.00
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.33	0.02	0.00
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.26	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.31	0.02	0.00
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.31	0.02	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.35	3.29	4.26	0.01	-	0.05	0.05	-	0.04	0.04	574.49	0.02	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.34	0.02	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.31	3.28	4.17	0.01	-	0.06	0.06	-	0.05	0.05	588.07	0.02	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.31	3.28	4.17	0.01	-	0.06	0.06	-	0.05	0.05	588.07	0.02	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.33	3.22	4.23	0.01	-	0.04	0.04	-	0.03	0.03	573.27	0.02	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.29	0.02	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.33	0.02	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	2032	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	2032	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	2032	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	2032	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.29	3.27	4.15	0.01	-	0.05	0.05	-	0.05	0.05	588.07	0.02	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	2032	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.33	0.02	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	2032	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.26	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 1

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Daily Emissions (lb/day) ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.08	0.84	1.07	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.08	0.84	1.07	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.15	1.45	1.91	0.00	-	0.02	0.02	-	0.02	0.02	258.8	0.01	0.00
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.04	0.20	2.88	0.00	-	0.01	0.01	-	0.01	0.01	407.0	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.08	0.65	0.45	0.00	-	0.03	0.03	-	0.02	0.02	86.7	0.00	0.00
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.08	0.65	0.45	0.00	-	0.02	0.02	-	0.02	0.02	86.7	0.00	0.00
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.16	1.49	1.92	0.00	-	0.02	0.02	-	0.02	0.02	259.3	0.01	0.00
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.08	0.84	1.07	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.08	0.84	1.07	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.15	1.45	1.91	0.00	-	0.02	0.02	-	0.02	0.02	258.8	0.01	0.00
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.04	0.20	2.88	0.00	-	0.01	0.01	-	0.01	0.01	407.0	0.02	0.00
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.08	0.65	0.45	0.00	-	0.03	0.03	-	0.02	0.02	86.7	0.00	0.00
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.08	0.65	0.45	0.00	-	0.02	0.02	-	0.02	0.02	86.7	0.00	0.00
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.16	1.49	1.92	0.00	-	0.02	0.02	-	0.02	0.02	259.3	0.01	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.08	0.84	1.07	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.08	0.84	1.07	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.15	1.45	1.91	0.00	-	0.02	0.02	-	0.02	0.02	258.8	0.01	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.04	0.20	2.88	0.00	-	0.01	0.01	-	0.01	0.01	407.0	0.02	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	2032	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	2032	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	2032	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	2032	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	2032	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.08	0.65	0.45	0.00	-	0.03	0.03	-	0.02	0.02	86.7	0.00	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	2032	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 1

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Total Emissions (tons) ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	Total Emissions (metric tons) CO_2	CH_4	N_2O	CO_2e
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.08	0.11	0.00	-	0.00	0.00	-	0.00	0.00	13.5	0.00	0.00	13.5
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.08	0.11	0.00	-	0.00	0.00	-	0.00	0.00	13.5	0.00	0.00	13.5
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.01	0.03	0.41	0.00	-	0.00	0.00	-	0.00	0.00	54.0	0.00	0.00	54.1
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.21	0.00	-	0.00	0.00	-	0.00	0.00	27.5	0.00	0.00	27.6
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.01	0.14	0.19	0.00	-	0.00	0.00	-	0.00	0.00	23.1	0.00	0.00	23.2
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.03	0.02	0.00	-	0.00	0.00	-	0.00	0.00	3.3	0.00	0.00	3.3
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.02	0.26	0.00	-	0.00	0.00	-	0.00	0.00	34.0	0.00	0.00	34.1
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.01	0.03	0.41	0.00	-	0.00	0.00	-	0.00	0.00	52.1	0.00	0.00	52.2
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.01	0.07	0.73	0.00	-	0.00	0.00	-	0.00	0.00	134.6	0.01	0.00	135.1
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.01	0.07	0.73	0.00	-	0.00	0.00	-	0.00	0.00	134.6	0.01	0.00	135.1
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.01	0.05	0.75	0.00	-	0.00	0.00	-	0.00	0.00	97.3	0.00	0.00	97.7
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.02	0.30	0.00	-	0.00	0.00	-	0.00	0.00	39.4	0.00	0.00	39.6
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.12	0.15	0.00	-	0.00	0.00	-	0.00	0.00	19.3	0.00	0.00	19.3
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.01	0.09	0.06	0.00	-	0.00	0.00	-	0.00	0.00	11.1	0.00	0.00	11.1
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.03	0.23	0.16	0.00	-	0.01	0.01	-	0.01	0.01	28.2	0.00	0.00	28.3
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.01	0.03	0.29	0.00	-	0.00	0.00	-	0.00	0.00	52.5	0.00	0.00	52.7
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.01	0.03	0.29	0.00	-	0.00	0.00	-	0.00	0.00	52.5	0.00	0.00	52.7
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.02	0.29	0.00	-	0.00	0.00	-	0.00	0.00	38.0	0.00	0.00	38.1
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.12	0.00	-	0.00	0.00	-	0.00	0.00	15.4	0.00	0.00	15.4
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.05	0.06	0.00	-	0.00	0.00	-	0.00	0.00	7.5	0.00	0.00	7.5
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.00	0.04	0.02	0.00	-	0.00	0.00	-	0.00	0.00	4.3	0.00	0.00	4.3
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.01	0.09	0.06	0.00	-	0.00	0.00	-	0.00	0.00	11.0	0.00	0.00	11.0
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.02	0.08	0.84	0.00	-	0.00	0.00	-	0.00	0.00	155.1	0.01	0.00	155.7
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.01	0.06	0.87	0.00	-	0.00	0.00	-	0.00	0.00	112.2	0.00	0.00	112.6
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.03	0.27	0.18	0.00	-	0.01	0.01	-	0.01	0.01	32.5	0.00	0.00	32.6
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.03	0.28	0.35	0.00	-	0.01	0.01	-	0.01	0.01	44.5	0.00	0.00	44.7
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.03	0.28	0.35	0.00	-	0.01	0.01	-	0.01	0.01	44.5	0.00	0.00	44.7
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.02	0.10	1.37	0.00	-	0.00	0.00	-	0.00	0.00	178.3	0.01	0.00	178.9
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.01	0.05	0.70	0.00	-	0.00	0.00	-	0.00	0.00	91.0	0.00	0.00	91.3
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.05	0.48	0.63	0.00	-	0.01	0.01	-	0.01	0.01	76.6	0.00	0.00	76.8
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.01	0.09	0.07	0.00	-	0.00	0.00	-	0.00	0.00	10.8	0.00	0.00	10.9
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.01	0.06	0.87	0.00	-	0.00	0.00	-	0.00	0.00	112.3	0.00	0.00	112.7
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.08	0.11	0.00	-	0.00	0.00	-	0.00	0.00	13.5	0.00	0.00	13.5
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.08	0.11	0.00	-	0.00	0.00	-	0.00	0.00	13.5	0.00	0.00	13.5
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.01	0.03	0.41	0.00	-	0.00	0.00	-	0.00	0.00	54.0	0.00	0.00	54.1
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.21	0.00	-	0.00	0.00	-	0.00	0.00	27.5	0.00	0.00	27.6
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.01	0.14	0.19	0.00	-	0.00	0.00	-	0.00	0.00	23.1	0.00	0.00	23.2
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.03	0.02	0.00	-	0.00	0.00	-	0.00	0.00	3.3	0.00	0.00	3.3
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.02	0.26	0.00	-	0.00	0.00	-	0.00	0.00	34.0	0.00	0.00	34.1
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.00	0.02	0.28	0.00	-	0.00	0.00	-	0.00	0.00	36.4	0.00	0.00	36.5
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.01	0.05	0.51	0.00	-	0.00	0.00	-	0.00	0.00	94.0	0.00	0.00	94.4
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.01	0.05	0.51	0.00	-	0.00	0.00	-	0.00	0.00	94.0	0.00	0.00	94.4
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.01	0.04	0.52	0.00	-	0.00	0.00	-	0.00	0.00	68.0	0.00	0.00	68.2
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.21	0.00	-	0.00	0.00	-	0.00	0.00	27.5	0.00	0.00	27.6
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.08	0.10	0.00	-	0.00	0.00	-	0.00	0.00	13.5	0.00	0.00	13.5
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.01	0.06	0.04	0.00	-	0.00	0.00	-	0.00	0.00	7.7	0.00	0.00	7.8
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.02	0.16	0.11	0.00	-	0.01	0.01	-	0.01	0.01	19.7	0.00	0.00	19.8
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.01	0.03	0.28	0.00	-	0.00	0.00	-	0.00	0.00	51.1	0.00	0.00	51.2
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.01	0.03	0.28	0.00	-	0.00	0.00	-	0.00	0.00	51.1	0.00	0.00	51.2
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.02	0.28	0.00	-	0.00	0.00	-	0.00	0.00	36.9	0.00	0.00	37.1
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.12	0.00	-	0.00	0.00	-	0.00	0.00	15.0	0.00	0.00	15.0
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.04	0.06	0.00	-	0.00	0.00	-	0.00	0.00	7.3	0.00	0.00	7.3
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.00	0.03	0.02	0.00	-	0.00	0.00	-	0.00	0.00	4.2	0.00	0.00	4.2
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.01	0.09	0.06	0.00	-	0.00	0.00	-	0.00	0.00	10.7	0.00	0.00	10.7
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.01	0.07	0.68	0.00	-	0.00	0.00	-	0.00	0.00	124.6	0.01	0.00	125.0
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.01	0.05	0.69	0.00	-	0.00	0.00	-	0.00	0.00	90.1	0.00	0.00	90.4
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.03	0.22	0.14	0.00	-	0.01	0.01	-	0.01	0.01	26.1	0.00	0.00	26.2
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.03	0.28	0.35	0.00	-	0.01	0.01	-	0.01	0.01	44.5	0.00	0.00	44.7
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.03	0.28	0.35	0.00	-	0.01	0.01	-	0.01	0.01	44.5	0.00	0.00	44.7
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.02	0.10	1.37	0.00	-	0.00	0.00	-	0.00	0.00	178.3	0.01	0.00	178.9
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.01	0.05	0.70	0.00	-	0.00	0.00	-	0.00	0.00	91.0	0.00	0.00	91.3
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.05	0.48	0.63	0.00	-	0.01	0.01	-	0.01	0.01	76.6	0.00	0.00	76.8
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.01	0.09	0.07	0.00	-	0.00	0.00	-	0.00	0.00	10.8	0.00	0.00	10.9
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.01	0.06	0.87	0.00	-	0.00	0.00	-	0.00	0.00	112.3	0.00	0.00	112.7
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.08	0.11	0.00	-	0.00	0.00	-	0.00	0.00	13.5	0.00	0.00	13.5
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.08	0.11	0.00	-	0.00	0.00	-	0.00	0.00	13.5	0.00	0.00	13.5
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.01	0.03	0.41	0.00	-	0.00	0.00	-	0.00	0.00	54.0	0.00	0.00	54.1
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.21	0.00	-	0.00	0.00	-	0.00	0.00	27.5	0.00	0.00	27.6
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.01	0.14	0.19	0.00	-	0.00	0.00	-	0.00	0.00	23.1	0.00	0.00	23.2
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.03	0.02	0.00	-	0.00	0.00	-	0.00	0.00	3.3	0.00	0.00	3.3
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.02	0.26	0.00	-	0.00	0.00	-	0.00	0.00	34.0	0.00	0.00	34.1
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.00	0.01	0.13	0.00	-	0.00	0.00	-	0.00	0.00	16.1	0.00	0.00	16.1
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	2032	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.00	0.02	0.23	0.00	-	0.00	0.00	-	0.00	0.00	41.5	0.00	0.00	41.7
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	2032	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.00	0.02	0.23	0.00	-	0.00	0.00	-	0.00	0.00	41.5	0.00	0.00	41.7
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	2032	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.02	0.23	0.00	-	0.00	0.00	-	0.00	0.00	30.0	0.00	0.00	30.1
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.09	0.00	-	0.00	0.00	-	0.00	0.00	12.2	0.00	0.00	12.2
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	2032	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.04	0.05	0.00	-	0.00	0.00	-	0.00	0.00	5.9	0.00	0.00	6.0
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	2032	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.00	0.03	0.02	0.00	-	0.00	0.00	-	0.00	0.00	3.4	0.00	0.00	3.4
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	2032	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.01	0.07	0.05	0.00	-	0.00	0.00	-	0.00	0.00	8.7	0.00	0.00	8.7

Sepulveda Transit Corridor Project - ALTERNATIVE 1

OFFROAD EQUIPMENT (ONSITE)[1]

															Emission Factor (g/bhp-hr)[3]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	2032	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	2032	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	2032	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	2032	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.29	3.27	4.15	0.01	-	0.05	0.05	-	0.05	0.05	588.07	0.02	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	2032	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.33	0.02	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	2032	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.26	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	11/1/2032	12/31/2034	5	565	10	2032	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	11/1/2032	12/31/2034	5	565	10	2032	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	11/1/2032	12/31/2034	5	565	10	2032	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.26	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.35	3.29	4.26	0.01	-	0.05	0.05	-	0.04	0.04	574.49	0.02	0.00
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.34	0.02	0.00
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.31	3.28	4.17	0.01	-	0.06	0.06	-	0.05	0.05	588.07	0.02	0.00
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.31	3.28	4.17	0.01	-	0.06	0.06	-	0.05	0.05	588.07	0.02	0.00
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.33	3.22	4.23	0.01	-	0.04	0.04	-	0.03	0.03	573.27	0.02	0.00
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.29	0.02	0.00
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.33	0.02	0.00
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.29	3.27	4.15	0.01	-	0.05	0.05	-	0.05	0.05	588.07	0.02	0.00
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.33	0.02	0.00
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.26	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.31	0.02	0.00
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.31	0.02	0.00
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.35	3.29	4.26	0.01	-	0.05	0.05	-	0.04	0.04	574.49	0.02	0.00
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.34	0.02	0.00
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.31	3.28	4.17	0.01	-	0.06	0.06	-	0.05	0.05	588.07	0.02	0.00
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.31	3.28	4.17	0.01	-	0.06	0.06	-	0.05	0.05	588.07	0.02	0.00
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.33	3.22	4.23	0.01	-	0.04	0.04	-	0.03	0.03	573.27	0.02	0.00
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.29	0.02	0.00
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.33	0.02	0.00
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.29	3.27	4.15	0.01	-	0.05	0.05	-	0.05	0.05	588.07	0.02	0.00
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.33	0.02	0.00
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.26	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.31	0.02	0.00
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.31	0.02	0.00
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.29	3.27	4.15	0.01	-	0.05	0.05	-	0.05	0.05	588.07	0.02	0.00
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.29	3.27	4.15	0.01	-	0.05	0.05	-	0.05	0.05	588.07	0.02	0.00
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.32	3.20	4.22	0.01	-	0.03	0.03	-	0.03	0.03	573.77	0.02	0.00
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.29	0.02	0.00
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Large Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	532.42	0.02	0.00
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.36	0.02	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 1

OFFROAD EQUIPMENT (ONSITE)[1]

																			Daily Emissions (lb/day)								
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	2032	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	2032	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	2032	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	2032	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	2032	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.08	0.65	0.45	0.00	-	0.03	0.03	-	0.02	0.02	86.7	0.00	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	2032	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	11/1/2032	12/31/2034	5	565	10	2032	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	11/1/2032	12/31/2034	5	565	10	2032	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	11/1/2032	12/31/2034	5	565	10	2032	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.16	1.49	1.92	0.00	-	0.02	0.02	-	0.02	0.02	259.3	0.01	0.00
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.08	0.84	1.07	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.08	0.84	1.07	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.15	1.45	1.91	0.00	-	0.02	0.02	-	0.02	0.02	258.8	0.01	0.00
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.04	0.20	2.88	0.00	-	0.01	0.01	-	0.01	0.01	407.0	0.02	0.00
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.08	0.65	0.45	0.00	-	0.03	0.03	-	0.02	0.02	86.7	0.00	0.00
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.08	0.65	0.45	0.00	-	0.02	0.02	-	0.02	0.02	86.7	0.00	0.00
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.16	1.49	1.92	0.00	-	0.02	0.02	-	0.02	0.02	259.3	0.01	0.00
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.08	0.84	1.07	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.08	0.84	1.07	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.15	1.45	1.91	0.00	-	0.02	0.02	-	0.02	0.02	258.8	0.01	0.00
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.04	0.20	2.88	0.00	-	0.01	0.01	-	0.01	0.01	407.0	0.02	0.00
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.08	0.65	0.45	0.00	-	0.03	0.03	-	0.02	0.02	86.7	0.00	0.00
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.08	0.65	0.45	0.00	-	0.02	0.02	-	0.02	0.02	86.7	0.00	0.00
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.15	1.44	1.91	0.00	-	0.01	0.01	-	0.01	0.01	259.0	0.01	0.00
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Large Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.14	0.72	7.15	0.01	-	0.03	0.03	-	0.03	0.03	1464.7	0.06	0.01
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 1

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Total Emissions (tons) ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	Total Emissions (metric tons) CO_2	CH_4	N_2O	CO_2e
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	2032	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.00	0.02	0.17	0.00	-	0.00	0.00	-	0.00	0.00	31.0	0.00	0.00	31.1
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	2032	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.00	0.02	0.17	0.00	-	0.00	0.00	-	0.00	0.00	31.0	0.00	0.00	31.1
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	2032	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.01	0.17	0.00	-	0.00	0.00	-	0.00	0.00	22.4	0.00	0.00	22.5
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.00	0.07	0.00	-	0.00	0.00	-	0.00	0.00	9.1	0.00	0.00	9.1
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	2032	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.03	0.03	0.00	-	0.00	0.00	-	0.00	0.00	4.4	0.00	0.00	4.5
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	2032	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.00	0.02	0.01	0.00	-	0.00	0.00	-	0.00	0.00	2.6	0.00	0.00	2.6
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	2032	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.01	0.05	0.04	0.00	-	0.00	0.00	-	0.00	0.00	6.5	0.00	0.00	6.5
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	11/1/2032	12/31/2034	5	565	10	2032	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.03	0.15	1.46	0.00	-	0.01	0.01	-	0.01	0.01	269.7	0.01	0.00	270.6
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	11/1/2032	12/31/2034	5	565	10	2032	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.02	0.11	1.50	0.00	-	0.00	0.00	-	0.00	0.00	195.0	0.01	0.00	195.7
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	11/1/2032	12/31/2034	5	565	10	2032	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.06	0.47	0.31	0.00	-	0.02	0.02	-	0.02	0.02	56.6	0.00	0.00	56.7
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.03	0.28	0.35	0.00	-	0.01	0.01	-	0.01	0.01	44.5	0.00	0.00	44.7
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.03	0.28	0.35	0.00	-	0.01	0.01	-	0.01	0.01	44.5	0.00	0.00	44.7
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.02	0.10	1.37	0.00	-	0.00	0.00	-	0.00	0.00	178.3	0.01	0.00	178.9
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.01	0.05	0.70	0.00	-	0.00	0.00	-	0.00	0.00	91.0	0.00	0.00	91.3
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.05	0.48	0.63	0.00	-	0.01	0.01	-	0.01	0.01	76.6	0.00	0.00	76.8
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.01	0.09	0.07	0.00	-	0.00	0.00	-	0.00	0.00	10.8	0.00	0.00	10.9
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.01	0.06	0.87	0.00	-	0.00	0.00	-	0.00	0.00	112.3	0.00	0.00	112.7
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.08	0.11	0.00	-	0.00	0.00	-	0.00	0.00	13.5	0.00	0.00	13.5
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.08	0.11	0.00	-	0.00	0.00	-	0.00	0.00	13.5	0.00	0.00	13.5
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.01	0.03	0.41	0.00	-	0.00	0.00	-	0.00	0.00	54.0	0.00	0.00	54.1
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.21	0.00	-	0.00	0.00	-	0.00	0.00	27.5	0.00	0.00	27.6
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.01	0.14	0.19	0.00	-	0.00	0.00	-	0.00	0.00	23.1	0.00	0.00	23.2
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.03	0.02	0.00	-	0.00	0.00	-	0.00	0.00	3.3	0.00	0.00	3.3
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.02	0.26	0.00	-	0.00	0.00	-	0.00	0.00	34.0	0.00	0.00	34.1
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.00	0.02	0.28	0.00	-	0.00	0.00	-	0.00	0.00	36.4	0.00	0.00	36.5
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.01	0.05	0.51	0.00	-	0.00	0.00	-	0.00	0.00	94.0	0.00	0.00	94.4
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.01	0.05	0.51	0.00	-	0.00	0.00	-	0.00	0.00	94.0	0.00	0.00	94.4
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.01	0.04	0.52	0.00	-	0.00	0.00	-	0.00	0.00	68.0	0.00	0.00	68.2
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.21	0.00	-	0.00	0.00	-	0.00	0.00	27.5	0.00	0.00	27.6
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.08	0.10	0.00	-	0.00	0.00	-	0.00	0.00	13.5	0.00	0.00	13.5
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.01	0.06	0.04	0.00	-	0.00	0.00	-	0.00	0.00	7.7	0.00	0.00	7.8
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.02	0.16	0.11	0.00	-	0.01	0.01	-	0.01	0.01	19.7	0.00	0.00	19.8
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.01	0.03	0.33	0.00	-	0.00	0.00	-	0.00	0.00	61.6	0.00	0.00	61.8
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.01	0.03	0.33	0.00	-	0.00	0.00	-	0.00	0.00	61.6	0.00	0.00	61.8
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.02	0.34	0.00	-	0.00	0.00	-	0.00	0.00	44.5	0.00	0.00	44.7
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.14	0.00	-	0.00	0.00	-	0.00	0.00	18.0	0.00	0.00	18.1
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.05	0.07	0.00	-	0.00	0.00	-	0.00	0.00	8.8	0.00	0.00	8.9
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.01	0.04	0.03	0.00	-	0.00	0.00	-	0.00	0.00	5.1	0.00	0.00	5.1
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.01	0.11	0.07	0.00	-	0.00	0.00	-	0.00	0.00	12.9	0.00	0.00	13.0
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.02	0.08	0.85	0.00	-	0.00	0.00	-	0.00	0.00	155.6	0.01	0.00	156.1
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.01	0.06	0.87	0.00	-	0.00	0.00	-	0.00	0.00	112.5	0.00	0.00	112.9
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.03	0.27	0.18	0.00	-	0.01	0.01	-	0.01	0.01	32.6	0.00	0.00	32.7
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.03	0.28	0.35	0.00	-	0.01	0.01	-	0.01	0.01	44.5	0.00	0.00	44.7
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.03	0.28	0.35	0.00	-	0.01	0.01	-	0.01	0.01	44.5	0.00	0.00	44.7
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.02	0.10	1.37	0.00	-	0.00	0.00	-	0.00	0.00	178.3	0.01	0.00	178.9
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.01	0.05	0.70	0.00	-	0.00	0.00	-	0.00	0.00	91.0	0.00	0.00	91.3
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.05	0.48	0.63	0.00	-	0.01	0.01	-	0.01	0.01	76.6	0.00	0.00	76.8
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.01	0.09	0.07	0.00	-	0.00	0.00	-	0.00	0.00	10.8	0.00	0.00	10.9
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.01	0.06	0.87	0.00	-	0.00	0.00	-	0.00	0.00	112.3	0.00	0.00	112.7
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.08	0.11	0.00	-	0.00	0.00	-	0.00	0.00	13.5	0.00	0.00	13.5
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.08	0.11	0.00	-	0.00	0.00	-	0.00	0.00	13.5	0.00	0.00	13.5
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.01	0.03	0.41	0.00	-	0.00	0.00	-	0.00	0.00	54.0	0.00	0.00	54.1
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.21	0.00	-	0.00	0.00	-	0.00	0.00	27.5	0.00	0.00	27.6
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.01	0.14	0.19	0.00	-	0.00	0.00	-	0.00	0.00	23.1	0.00	0.00	23.2
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.03	0.02	0.00	-	0.00	0.00	-	0.00	0.00	3.3	0.00	0.00	3.3
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.02	0.26	0.00	-	0.00	0.00	-	0.00	0.00	34.0	0.00	0.00	34.1
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.00	0.02	0.34	0.00	-	0.00	0.00	-	0.00	0.00	43.9	0.00	0.00	44.1
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.01	0.06	0.62	0.00	-	0.00	0.00	-	0.00	0.00	113.6	0.00	0.00	114.0
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.01	0.06	0.62	0.00	-	0.00	0.00	-	0.00	0.00	113.6	0.00	0.00	114.0
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.01	0.04	0.63	0.00	-	0.00	0.00	-	0.00	0.00	82.1	0.00	0.00	82.4
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.02	0.26	0.00	-	0.00	0.00	-	0.00	0.00	33.3	0.00	0.00	33.4
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.10	0.13	0.00	-	0.00	0.00	-	0.00	0.00	16.3	0.00	0.00	16.3
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.01	0.08	0.05	0.00	-	0.00	0.00	-	0.00	0.00	9.4	0.00	0.00	9.4
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.02	0.20	0.13	0.00	-	0.01	0.01	-	0.01	0.01	23.8	0.00	0.00	23.9
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.00	0.02	0.17	0.00	-	0.00	0.00	-	0.00	0.00	31.5	0.00	0.00	31.6
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.00	0.02	0.17	0.00	-	0.00	0.00	-	0.00	0.00	31.5	0.00	0.00	31.6
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.01	0.18	0.00	-	0.00	0.00	-	0.00	0.00	22.8	0.00	0.00	22.9
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.00	0.07	0.00	-	0.00	0.00	-	0.00	0.00	9.2	0.00	0.00	9.3
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.03	0.03	0.00	-	0.00	0.00	-	0.00	0.00	4.5	0.00	0.00	4.5
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.00	0.02	0.01	0.00	-	0.00	0.00	-	0.00	0.00	2.6	0.00	0.00	2.6
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.01	0.05	0.04	0.00	-	0.00	0.00	-	0.00	0.00	6.6	0.00	0.00	6.6
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.02	0.12	1.24	0.00	-	0.00	0.00	-	0.00	0.00	228.2	0.01	0.00	228.9
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.02	0.09	1.27	0.00	-	0.00	0.00	-	0.00	0.00	165.0	0.01	0.00	165.5
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.05	0.39	0.26	0.00	-	0.02	0.02	-	0.01	0.01	47.8	0.00	0.00	48.0
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.07	0.09	0.00	-	0.00	0.00	-	0.00	0.00	12.0	0.00	0.00	12.0
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.07	0.09	0.00	-	0.00	0.00	-	0.00	0.00	12.0	0.00	0.00	12.0
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.00	0.03	0.37	0.00	-	0.00	0.00	-	0.00	0.00	47.9	0.00	0.00	48.1
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.19	0.00	-	0.00	0.00	-	0.00	0.00	24.5	0.00	0.00	24.6
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.01	0.13	0.17	0.00	-	0.00	0.00	-	0.00	0.00	20.6	0.00	0.00	20.6
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.02	0.02	0.00	-	0.00	0.00	-	0.00	0.00	2.9	0.00	0.00	2.9
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.02	0.23	0.00	-	0.00	0.00	-	0.00	0.00	30.2	0.00	0.00	30.3
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Large Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.03	0.03	0.00	-	0.00	0.00	-	0.00	0.00	4.4	0.00	0.00	4.4
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.00	0.07	0.00	-	0.00	0.00	-	0.00	0.00	8.9	0.00	0.00	9.0
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.00	0.02	0.23	0.00	-	0.00	0.00	-	0.00	0.00	42.5	0.00	0.00	42.7
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.01	0.01	0.00	-	0.00	0.00	-	0.00	0.00	1.1	0.00	0.00	1.1

Sepulveda Transit Corridor Project - ALTERNATIVE 1

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Emission Factor (g/bhp-hr)[3] ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Large Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Dozer-1ea	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	532.42	0.02	0.00
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.36	0.02	0.00
TPSS 2-Wilshire Blvd-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Compactor	Plate Compactors	4	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.36	0.02	0.00
TPSS 2-Wilshire Blvd-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Telescoping Fork	Rough Terrain Forklifts	4	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
TPSS 2-Wilshire Blvd-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Conc Pump	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.32	3.17	4.22	0.01	-	0.03	0.03	-	0.03	0.03	573.94	0.02	0.00
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.36	0.02	0.00
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	2033	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	532.42	0.02	0.00
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	2033	Compactor	Plate Compactors	2	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.36	0.02	0.00
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	2033	Asphalt Paver	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	525.85	0.02	0.00
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	2033	Asphalt roller	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.40	3.39	3.98	0.01	-	0.09	0.09	-	0.09	0.09	587.11	0.02	0.00
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.29	3.27	4.15	0.01	-	0.05	0.05	-	0.05	0.05	588.07	0.02	0.00
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.29	3.27	4.15	0.01	-	0.05	0.05	-	0.05	0.05	588.07	0.02	0.00
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.32	3.20	4.22	0.01	-	0.03	0.03	-	0.03	0.03	573.77	0.02	0.00
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.29	0.02	0.00
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Large Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	532.42	0.02	0.00
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.36	0.02	0.00
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Large Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Dozer-1ea	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	532.42	0.02	0.00
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.36	0.02	0.00
TPSS 3-Sunset Onramp-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Compactor	Plate Compactors	4	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.36	0.02	0.00
TPSS 3-Sunset Onramp-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Telescoping Fork	Rough Terrain Forklifts	4	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
TPSS 3-Sunset Onramp-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Conc Pump	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.32	3.17	4.22	0.01	-	0.03	0.03	-	0.03	0.03	573.94	0.02	0.00
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.36	0.02	0.00
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	2033	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	532.42	0.02	0.00
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	2033	Compactor	Plate Compactors	2	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.36	0.02	0.00
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	2033	Asphalt Paver	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	525.85	0.02	0.00
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	2033	Asphalt roller	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.40	3.39	3.98	0.01	-	0.09	0.09	-	0.09	0.09	587.11	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.29	3.27	4.15	0.01	-	0.05	0.05	-	0.05	0.05	588.07	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.29	3.27	4.15	0.01	-	0.05	0.05	-	0.05	0.05	588.07	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.32	3.20	4.22	0.01	-	0.03	0.03	-	0.03	0.03	573.77	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.29	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Large Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	532.42	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.36	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Large Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Dozer-1ea	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	532.42	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.36	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Compactor	Plate Compactors	4	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.36	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Telescoping Fork	Rough Terrain Forklifts	4	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Conc Pump	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.32	3.17	4.22	0.01	-	0.03	0.03	-	0.03	0.03	573.94	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.36	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	532.42	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Compactor	Plate Compactors	2	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.36	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Asphalt Paver	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	525.85	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Asphalt roller	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.40	3.39	3.98	0.01	-	0.09	0.09	-	0.09	0.09	587.11	0.02	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 1

OFFROAD EQUIPMENT (ONSITE)[1]

															Daily Emissions (lb/day)												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Large Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Dozer-1ea	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.14	0.72	7.15	0.01	-	0.03	0.03	-	0.03	0.03	1464.7	0.06	0.01
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
TPSS 2-Wilshire Blvd-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Compactor	Plate Compactors	4	8.5	8	0.43	Diesel	Fleet Avg	0.14	1.07	0.89	0.00	-	0.04	0.04	-	0.04	0.04	146.6	0.01	0.00
TPSS 2-Wilshire Blvd-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Telescoping Fork	Rough Terrain Forklifts	4	8.5	96	0.4	Diesel	Tier 4 Final	0.14	0.75	10.65	0.01	-	0.03	0.03	-	0.03	0.03	1521.9	0.06	0.01
TPSS 2-Wilshire Blvd-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Conc Pump	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.17	1.29	0.91	0.00	-	0.05	0.05	-	0.05	0.05	173.4	0.01	0.00
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.14	1.43	1.91	0.00	-	0.01	0.01	-	0.01	0.01	259.1	0.01	0.00
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.06	0.30	4.31	0.01	-	0.01	0.01	-	0.01	0.01	616.5	0.03	0.01
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	2033	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.14	0.72	7.15	0.01	-	0.03	0.03	-	0.03	0.03	1464.7	0.06	0.01
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	2033	Compactor	Plate Compactors	2	8.5	8	0.43	Diesel	Fleet Avg	0.07	0.53	0.45	0.00	-	0.02	0.02	-	0.02	0.02	73.3	0.00	0.00
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	2033	Asphalt Paver	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.03	0.17	2.36	0.00	-	0.01	0.01	-	0.01	0.01	335.2	0.01	0.00
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	2033	Asphalt roller	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.20	1.74	2.04	0.00	-	0.05	0.05	-	0.04	0.04	301.0	0.01	0.00
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.15	1.44	1.91	0.00	-	0.01	0.01	-	0.01	0.01	259.0	0.01	0.00
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Large Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.14	0.72	7.15	0.01	-	0.03	0.03	-	0.03	0.03	1464.7	0.06	0.01
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Large Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Dozer-1ea	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.14	0.72	7.15	0.01	-	0.03	0.03	-	0.03	0.03	1464.7	0.06	0.01
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
TPSS 3-Sunset Onramp-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Compactor	Plate Compactors	4	8.5	8	0.43	Diesel	Fleet Avg	0.14	1.07	0.89	0.00	-	0.04	0.04	-	0.04	0.04	146.6	0.01	0.00
TPSS 3-Sunset Onramp-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Telescoping Fork	Rough Terrain Forklifts	4	8.5	96	0.4	Diesel	Tier 4 Final	0.14	0.75	10.65	0.01	-	0.03	0.03	-	0.03	0.03	1521.9	0.06	0.01
TPSS 3-Sunset Onramp-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Conc Pump	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.17	1.29	0.91	0.00	-	0.05	0.05	-	0.05	0.05	173.4	0.01	0.00
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.14	1.43	1.91	0.00	-	0.01	0.01	-	0.01	0.01	259.1	0.01	0.00
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.06	0.30	4.31	0.01	-	0.01	0.01	-	0.01	0.01	616.5	0.03	0.01
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	2033	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.14	0.72	7.15	0.01	-	0.03	0.03	-	0.03	0.03	1464.7	0.06	0.01
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	2033	Compactor	Plate Compactors	2	8.5	8	0.43	Diesel	Fleet Avg	0.07	0.53	0.45	0.00	-	0.02	0.02	-	0.02	0.02	73.3	0.00	0.00
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	2033	Asphalt Paver	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.03	0.17	2.36	0.00	-	0.01	0.01	-	0.01	0.01	335.2	0.01	0.00
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	2033	Asphalt roller	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.20	1.74	2.04	0.00	-	0.05	0.05	-	0.04	0.04	301.0	0.01	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.15	1.44	1.91	0.00	-	0.01	0.01	-	0.01	0.01	259.0	0.01	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Large Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.14	0.72	7.15	0.01	-	0.03	0.03	-	0.03	0.03	1464.7	0.06	0.01
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Large Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Dozer-1ea	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.14	0.72	7.15	0.01	-	0.03	0.03	-	0.03	0.03	1464.7	0.06	0.01
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Compactor	Plate Compactors	4	8.5	8	0.43	Diesel	Fleet Avg	0.14	1.07	0.89	0.00	-	0.04	0.04	-	0.04	0.04	146.6	0.01	0.00
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Telescoping Fork	Rough Terrain Forklifts	4	8.5	96	0.4	Diesel	Tier 4 Final	0.14	0.75	10.65	0.01	-	0.03	0.03	-	0.03	0.03	1521.9	0.06	0.01
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Conc Pump	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.17	1.29	0.91	0.00	-	0.05	0.05	-	0.05	0.05	173.4	0.01	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.14	1.43	1.91	0.00	-	0.01	0.01	-	0.01	0.01	259.1	0.01	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.06	0.30	4.31	0.01	-	0.01	0.01	-	0.01	0.01	616.5	0.03	0.01
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.14	0.72	7.15	0.01	-	0.03	0.03	-	0.03	0.03	1464.7	0.06	0.01
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Compactor	Plate Compactors	2	8.5	8	0.43	Diesel	Fleet Avg	0.07	0.53	0.45	0.00	-	0.02	0.02	-	0.02	0.02	73.3	0.00	0.00
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Asphalt Paver	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.03	0.17	2.36	0.00	-	0.01	0.01	-	0.01	0.01	335.2	0.01	0.00
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Asphalt roller	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.20	1.74	2.04	0.00	-	0.05	0.05	-	0.04	0.04	301.0	0.01	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 1

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Total Emissions (tons) ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	Total Emissions (metric tons) CO_2	CH_4	N_2O	CO_2e
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Large Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.02	0.02	0.00	-	0.00	0.00	-	0.00	0.00	2.9	0.00	0.00	3.0
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.00	0.01	0.09	0.00	-	0.00	0.00	-	0.00	0.00	11.8	0.00	0.00	11.8
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.00	0.05	0.00	-	0.00	0.00	-	0.00	0.00	6.0	0.00	0.00	6.0
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Dozer-1ea	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.00	0.02	0.15	0.00	-	0.00	0.00	-	0.00	0.00	28.6	0.00	0.00	28.7
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.01	0.00	0.00	-	0.00	0.00	-	0.00	0.00	0.7	0.00	0.00	0.7
TPSS 2-Wilshire Blvd-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Compactor	Plate Compactors	4	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.02	0.02	0.00	-	0.00	0.00	-	0.00	0.00	2.9	0.00	0.00	2.9
TPSS 2-Wilshire Blvd-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Telescoping Fork	Rough Terrain Forklifts	4	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.02	0.23	0.00	-	0.00	0.00	-	0.00	0.00	29.7	0.00	0.00	29.8
TPSS 2-Wilshire Blvd-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Conc Pump	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.00	0.03	0.02	0.00	-	0.00	0.00	-	0.00	0.00	3.4	0.00	0.00	3.4
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.01	0.01	0.00	-	0.00	0.00	-	0.00	0.00	1.6	0.00	0.00	1.6
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.01	0.01	0.00	-	0.00	0.00	-	0.00	0.00	1.6	0.00	0.00	1.6
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.00	0.00	0.05	0.00	-	0.00	0.00	-	0.00	0.00	6.3	0.00	0.00	6.3
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.00	0.02	0.00	-	0.00	0.00	-	0.00	0.00	3.2	0.00	0.00	3.2
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.00	0.02	0.02	0.00	-	0.00	0.00	-	0.00	0.00	2.7	0.00	0.00	2.7
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.00	0.00	0.00	-	0.00	0.00	-	0.00	0.00	0.4	0.00	0.00	0.4
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.00	0.03	0.00	-	0.00	0.00	-	0.00	0.00	4.0	0.00	0.00	4.0
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.00	0.00	0.05	0.00	-	0.00	0.00	-	0.00	0.00	6.0	0.00	0.00	6.0
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.00	0.05	0.00	-	0.00	0.00	-	0.00	0.00	6.2	0.00	0.00	6.2
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	2033	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.00	0.01	0.08	0.00	-	0.00	0.00	-	0.00	0.00	14.6	0.00	0.00	14.7
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	2033	Compactor	Plate Compactors	2	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.01	0.00	0.00	-	0.00	0.00	-	0.00	0.00	0.7	0.00	0.00	0.7
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	2033	Asphalt Paver	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.00	0.00	0.03	0.00	-	0.00	0.00	-	0.00	0.00	3.3	0.00	0.00	3.4
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	2033	Asphalt roller	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.02	0.02	0.00	-	0.00	0.00	-	0.00	0.00	3.0	0.00	0.00	3.0
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.07	0.09	0.00	-	0.00	0.00	-	0.00	0.00	12.0	0.00	0.00	12.0
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.07	0.09	0.00	-	0.00	0.00	-	0.00	0.00	12.0	0.00	0.00	12.0
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.00	0.03	0.37	0.00	-	0.00	0.00	-	0.00	0.00	47.9	0.00	0.00	48.1
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.19	0.00	-	0.00	0.00	-	0.00	0.00	24.5	0.00	0.00	24.6
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.01	0.13	0.17	0.00	-	0.00	0.00	-	0.00	0.00	20.6	0.00	0.00	20.6
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.02	0.02	0.00	-	0.00	0.00	-	0.00	0.00	2.9	0.00	0.00	2.9
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.02	0.23	0.00	-	0.00	0.00	-	0.00	0.00	30.2	0.00	0.00	30.3
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Large Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.03	0.03	0.00	-	0.00	0.00	-	0.00	0.00	4.4	0.00	0.00	4.4
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.00	0.07	0.00	-	0.00	0.00	-	0.00	0.00	8.9	0.00	0.00	9.0
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.00	0.02	0.23	0.00	-	0.00	0.00	-	0.00	0.00	42.5	0.00	0.00	42.7
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.01	0.01	0.00	-	0.00	0.00	-	0.00	0.00	1.1	0.00	0.00	1.1
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Large Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.02	0.02	0.00	-	0.00	0.00	-	0.00	0.00	2.9	0.00	0.00	3.0
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.00	0.01	0.09	0.00	-	0.00	0.00	-	0.00	0.00	11.8	0.00	0.00	11.8
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.00	0.05	0.00	-	0.00	0.00	-	0.00	0.00	6.0	0.00	0.00	6.0
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Dozer-1ea	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.00	0.02	0.15	0.00	-	0.00	0.00	-	0.00	0.00	28.6	0.00	0.00	28.7
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.01	0.00	0.00	-	0.00	0.00	-	0.00	0.00	0.7	0.00	0.00	0.7
TPSS 3-Sunset Onramp-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Compactor	Plate Compactors	4	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.02	0.02	0.00	-	0.00	0.00	-	0.00	0.00	2.9	0.00	0.00	2.9
TPSS 3-Sunset Onramp-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Telescoping Fork	Rough Terrain Forklifts	4	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.02	0.23	0.00	-	0.00	0.00	-	0.00	0.00	29.7	0.00	0.00	29.8
TPSS 3-Sunset Onramp-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Conc Pump	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.00	0.03	0.02	0.00	-	0.00	0.00	-	0.00	0.00	3.4	0.00	0.00	3.4
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.01	0.01	0.00	-	0.00	0.00	-	0.00	0.00	1.6	0.00	0.00	1.6
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.01	0.01	0.00	-	0.00	0.00	-	0.00	0.00	1.6	0.00	0.00	1.6
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.00	0.00	0.05	0.00	-	0.00	0.00	-	0.00	0.00	6.3	0.00	0.00	6.3
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.00	0.02	0.00	-	0.00	0.00	-	0.00	0.00	3.2	0.00	0.00	3.2
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.00	0.02	0.02	0.00	-	0.00	0.00	-	0.00	0.00	2.7	0.00	0.00	2.7
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.00	0.00	0.00	-	0.00	0.00	-	0.00	0.00	0.4	0.00	0.00	0.4
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.00	0.03	0.00	-	0.00	0.00	-	0.00	0.00	4.0	0.00	0.00	4.0
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.00	0.00	0.05	0.00	-	0.00	0.00	-	0.00	0.00	6.0	0.00	0.00	6.0
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.00	0.05	0.00	-	0.00	0.00	-	0.00	0.00	6.2	0.00	0.00	6.2
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	2033	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.00	0.01	0.08	0.00	-	0.00	0.00	-	0.00	0.00	14.6	0.00	0.00	14.7
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	2033	Compactor	Plate Compactors	2	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.01	0.00	0.00	-	0.00	0.00	-	0.00	0.00	0.7	0.00	0.00	0.7
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	2033	Asphalt Paver	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.00	0.00	0.03	0.00	-	0.00	0.00	-	0.00	0.00	3.3	0.00	0.00	3.4
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	2033	Asphalt roller	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.02	0.02	0.00	-	0.00	0.00	-	0.00	0.00	3.0	0.00	0.00	3.0
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.07	0.09	0.00	-	0.00	0.00	-	0.00	0.00	12.0	0.00	0.00	12.0
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.07	0.09	0.00	-	0.00	0.00	-	0.00	0.00	12.0	0.00	0.00	12.0
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.00	0.03	0.37	0.00	-	0.00	0.00	-	0.00	0.00	47.9	0.00	0.00	48.1
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.19	0.00	-	0.00	0.00	-	0.00	0.00	24.5	0.00	0.00	24.6
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.01	0.13	0.17	0.00	-	0.00	0.00	-	0.00	0.00	20.6	0.00	0.00	20.6
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.02	0.02	0.00	-	0.00	0.00	-	0.00	0.00	2.9	0.00	0.00	2.9
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.02	0.23	0.00	-	0.00	0.00	-	0.00	0.00	30.2	0.00	0.00	30.3
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Large Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.03	0.03	0.00	-	0.00	0.00	-	0.00	0.00	4.4	0.00	0.00	4.4
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.00	0.07	0.00	-	0.00	0.00	-	0.00	0.00	8.9	0.00	0.00	9.0
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.00	0.02	0.23	0.00	-	0.00	0.00	-	0.00	0.00	42.5	0.00	0.00	42.7
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.01	0.01	0.00	-	0.00	0.00	-	0.00	0.00	1.1	0.00	0.00	1.1
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Large Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.02	0.02	0.00	-	0.00	0.00	-	0.00	0.00	2.9	0.00	0.00	3.0
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.00	0.01	0.09	0.00	-	0.00	0.00	-	0.00	0.00	11.8	0.00	0.00	11.8
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.00	0.05	0.00	-	0.00	0.00	-	0.00	0.00	6.0	0.00	0.00	6.0
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Dozer-1ea	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.00	0.02	0.15	0.00	-	0.00	0.00	-	0.00	0.00	28.6	0.00	0.00	28.7
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.01	0.00	0.00	-	0.00	0.00	-	0.00	0.00	0.7	0.00	0.00	0.7
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Compactor	Plate Compactors	4	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.02	0.02	0.00	-	0.00	0.00	-	0.00	0.00	2.9	0.00	0.00	2.9
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Telescoping Fork	Rough Terrain Forklifts	4	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.02	0.23	0.00	-	0.00	0.00	-	0.00	0.00	29.7	0.00	0.00	29.8
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Conc Pump	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.00	0.03	0.02	0.00	-	0.00	0.00	-	0.00	0.00	3.4	0.00	0.00	3.4
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.01	0.01	0.00	-	0.00	0.00	-	0.00	0.00	1.6	0.00	0.00	1.6
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.01	0.01	0.00	-	0.00	0.00	-	0.00	0.00	1.6	0.00	0.00	1.6
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.00	0.00	0.05	0.00	-	0.00	0.00	-	0.00	0.00	6.3	0.00	0.00	6.3
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.00	0.02	0.00	-	0.00	0.00	-	0.00	0.00	3.2	0.00	0.00	3.2
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.00	0.02	0.02	0.00	-	0.00	0.00	-	0.00	0.00	2.7	0.00	0.00	2.7
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.00	0.00	0.00	-	0.00	0.00	-	0.00	0.00	0.4	0.00	0.00	0.4
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.00	0.03	0.00	-	0.00	0.00	-	0.00	0.00	4.0	0.00	0.00	4.0
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.00	0.00	0.05	0.00	-	0.00	0.00	-	0.00	0.00	6.0	0.00	0.00	6.0
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.00	0.05	0.00	-	0.00	0.00	-	0.00	0.00	6.2	0.00	0.00	6.2
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.00	0.01	0.08	0.00	-	0.00	0.00	-	0.00	0.00	14.6	0.00	0.00	14.7
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Compactor	Plate Compactors	2	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.01	0.00	0.00	-	0.00	0.00	-	0.00	0.00	0.7	0.00	0.00	0.7
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Asphalt Paver	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.00	0.00	0.03	0.00	-	0.00	0.00	-	0.00	0.00	3.3	0.00	0.00	3.4
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Asphalt roller	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.02	0.02	0.00	-	0.00	0.00	-	0.00	0.00	3.0	0.00	0.00	3.0

Sepulveda Transit Corridor Project - ALTERNATIVE 1

OFFROAD EQUIPMENT (ONSITE)[1]

														Emission Factor (g/bhp-hr)[3]											
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.29	3.27	4.15	0.01	-	0.05	0.05	-	0.05	0.05	588.07	0.02	0.00
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.29	3.27	4.15	0.01	-	0.05	0.05	-	0.05	0.05	588.07	0.02	0.00
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.32	3.20	4.22	0.01	-	0.03	0.03	-	0.03	0.03	573.77	0.02	0.00
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.29	0.02	0.00
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Large Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	532.42	0.02	0.00
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.36	0.02	0.00
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Large Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Dozer-1ea	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	532.42	0.02	0.00
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.36	0.02	0.00
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Compactor	Plate Compactors	4	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.36	0.02	0.00
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Telescoping Fork	Rough Terrain Forklifts	4	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Conc Pump	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.32	3.17	4.22	0.01	-	0.03	0.03	-	0.03	0.03	573.94	0.02	0.00
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.36	0.02	0.00
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	532.42	0.02	0.00
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Compactor	Plate Compactors	2	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.36	0.02	0.00
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Asphalt Paver	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	525.85	0.02	0.00
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Asphalt roller	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.40	3.39	3.98	0.01	-	0.09	0.09	-	0.09	0.09	587.11	0.02	0.00
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.29	3.27	4.15	0.01	-	0.05	0.05	-	0.05	0.05	588.07	0.02	0.00
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.29	3.27	4.15	0.01	-	0.05	0.05	-	0.05	0.05	588.07	0.02	0.00
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.32	3.20	4.22	0.01	-	0.03	0.03	-	0.03	0.03	573.77	0.02	0.00
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.29	0.02	0.00
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Large Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	532.42	0.02	0.00
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.36	0.02	0.00
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Large Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Dozer-1ea	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	532.42	0.02	0.00
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.36	0.02	0.00
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Compactor	Plate Compactors	4	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.36	0.02	0.00
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Telescoping Fork	Rough Terrain Forklifts	4	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Conc Pump	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.32	3.17	4.22	0.01	-	0.03	0.03	-	0.03	0.03	573.94	0.02	0.00
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.36	0.02	0.00
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	532.42	0.02	0.00
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Compactor	Plate Compactors	2	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.36	0.02	0.00
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Asphalt Paver	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	525.85	0.02	0.00
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Asphalt roller	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.40	3.39	3.98	0.01	-	0.09	0.09	-	0.09	0.09	587.11	0.02	0.00
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.31	3.28	4.17	0.01	-	0.06	0.06	-	0.05	0.05	588.07	0.02	0.00
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.31	3.28	4.17	0.01	-	0.06	0.06	-	0.05	0.05	588.07	0.02	0.00
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.33	3.22	4.23	0.01	-	0.04	0.04	-	0.03	0.03	573.27	0.02	0.00
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.29	0.02	0.00
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.32	3.17	4.22	0.01	-	0.03	0.03	-	0.03	0.03	573.94	0.02	0.00
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.36	0.02	0.00
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Large Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	532.42	0.02	0.00
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	623 Scraper	Scrapers	2	8.5	423	0.48	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	528.52	0.02	0.00
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Compactor	Plate Compactors	2	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.36	0.02	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 1

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Daily Emissions (lb/day) ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.15	1.44	1.91	0.00	-	0.01	0.01	-	0.01	0.01	259.0	0.01	0.00
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Large Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.14	0.72	7.15	0.01	-	0.03	0.03	-	0.03	0.03	1464.7	0.06	0.01
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Large Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Dozer-1ea	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.14	0.72	7.15	0.01	-	0.03	0.03	-	0.03	0.03	1464.7	0.06	0.01
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Compactor	Plate Compactors	4	8.5	8	0.43	Diesel	Fleet Avg	0.14	1.07	0.89	0.00	-	0.04	0.04	-	0.04	0.04	146.6	0.01	0.00
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Telescoping Fork	Rough Terrain Forklifts	4	8.5	96	0.4	Diesel	Tier 4 Final	0.14	0.75	10.65	0.01	-	0.03	0.03	-	0.03	0.03	1521.9	0.06	0.01
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Conc Pump	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.17	1.29	0.91	0.00	-	0.05	0.05	-	0.05	0.05	173.4	0.01	0.00
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.14	1.43	1.91	0.00	-	0.01	0.01	-	0.01	0.01	259.1	0.01	0.00
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.06	0.30	4.31	0.01	-	0.01	0.01	-	0.01	0.01	616.5	0.03	0.01
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.14	0.72	7.15	0.01	-	0.03	0.03	-	0.03	0.03	1464.7	0.06	0.01
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Compactor	Plate Compactors	2	8.5	8	0.43	Diesel	Fleet Avg	0.07	0.53	0.45	0.00	-	0.02	0.02	-	0.02	0.02	73.3	0.00	0.00
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Asphalt Paver	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.03	0.17	2.36	0.00	-	0.01	0.01	-	0.01	0.01	335.2	0.01	0.00
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Asphalt roller	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.20	1.74	2.04	0.00	-	0.05	0.05	-	0.04	0.04	301.0	0.01	0.00
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.15	1.44	1.91	0.00	-	0.01	0.01	-	0.01	0.01	259.0	0.01	0.00
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Large Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.14	0.72	7.15	0.01	-	0.03	0.03	-	0.03	0.03	1464.7	0.06	0.01
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Large Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Dozer-1ea	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.14	0.72	7.15	0.01	-	0.03	0.03	-	0.03	0.03	1464.7	0.06	0.01
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Compactor	Plate Compactors	4	8.5	8	0.43	Diesel	Fleet Avg	0.14	1.07	0.89	0.00	-	0.04	0.04	-	0.04	0.04	146.6	0.01	0.00
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Telescoping Fork	Rough Terrain Forklifts	4	8.5	96	0.4	Diesel	Tier 4 Final	0.14	0.75	10.65	0.01	-	0.03	0.03	-	0.03	0.03	1521.9	0.06	0.01
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Conc Pump	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.17	1.29	0.91	0.00	-	0.05	0.05	-	0.05	0.05	173.4	0.01	0.00
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.14	1.43	1.91	0.00	-	0.01	0.01	-	0.01	0.01	259.1	0.01	0.00
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.06	0.30	4.31	0.01	-	0.01	0.01	-	0.01	0.01	616.5	0.03	0.01
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.14	0.72	7.15	0.01	-	0.03	0.03	-	0.03	0.03	1464.7	0.06	0.01
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Compactor	Plate Compactors	2	8.5	8	0.43	Diesel	Fleet Avg	0.07	0.53	0.45	0.00	-	0.02	0.02	-	0.02	0.02	73.3	0.00	0.00
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Asphalt Paver	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.03	0.17	2.36	0.00	-	0.01	0.01	-	0.01	0.01	335.2	0.01	0.00
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Asphalt roller	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.20	1.74	2.04	0.00	-	0.05	0.05	-	0.04	0.04	301.0	0.01	0.00
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.08	0.84	1.07	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.08	0.84	1.07	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.15	1.45	1.91	0.00	-	0.02	0.02	-	0.02	0.02	258.8	0.01	0.00
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.14	1.43	1.91	0.00	-	0.01	0.01	-	0.01	0.01	259.1	0.01	0.00
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Large Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.06	0.30	4.31	0.01	-	0.01	0.01	-	0.01	0.01	616.5	0.03	0.01
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.14	0.72	7.15	0.01	-	0.03	0.03	-	0.03	0.03	1464.7	0.06	0.01
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	623 Scraper	Scrapers	2	8.5	423	0.48	Diesel	Tier 4 Final	0.38	1.98	19.79	0.04	-	0.08	0.08	-	0.08	0.08	4021.9	0.16	0.03
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Compactor	Plate Compactors	2	8.5	8	0.43	Diesel	Fleet Avg	0.07	0.53	0.45	0.00	-	0.02	0.02	-	0.02	0.02	73.3	0.00	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 1

OFFROAD EQUIPMENT (ONSITE)[1]

															Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.07	0.09	0.00	-	0.00	0.00	-	0.00	0.00	12.0	0.00	0.00	12.0
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.07	0.09	0.00	-	0.00	0.00	-	0.00	0.00	12.0	0.00	0.00	12.0
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.00	0.03	0.37	0.00	-	0.00	0.00	-	0.00	0.00	47.9	0.00	0.00	48.1
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.19	0.00	-	0.00	0.00	-	0.00	0.00	24.5	0.00	0.00	24.6
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.01	0.13	0.17	0.00	-	0.00	0.00	-	0.00	0.00	20.6	0.00	0.00	20.6
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.02	0.02	0.00	-	0.00	0.00	-	0.00	0.00	2.9	0.00	0.00	2.9
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.02	0.23	0.00	-	0.00	0.00	-	0.00	0.00	30.2	0.00	0.00	30.3
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Large Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.03	0.03	0.00	-	0.00	0.00	-	0.00	0.00	4.4	0.00	0.00	4.4
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.00	0.07	0.00	-	0.00	0.00	-	0.00	0.00	8.9	0.00	0.00	9.0
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.00	0.02	0.23	0.00	-	0.00	0.00	-	0.00	0.00	42.5	0.00	0.00	42.7
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.01	0.01	0.00	-	0.00	0.00	-	0.00	0.00	1.1	0.00	0.00	1.1
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Large Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.02	0.02	0.00	-	0.00	0.00	-	0.00	0.00	2.9	0.00	0.00	3.0
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.00	0.01	0.09	0.00	-	0.00	0.00	-	0.00	0.00	11.8	0.00	0.00	11.8
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.00	0.05	0.00	-	0.00	0.00	-	0.00	0.00	6.0	0.00	0.00	6.0
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Dozer-1ea	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.00	0.02	0.15	0.00	-	0.00	0.00	-	0.00	0.00	28.6	0.00	0.00	28.7
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.01	0.00	0.00	-	0.00	0.00	-	0.00	0.00	0.7	0.00	0.00	0.7
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Compactor	Plate Compactors	4	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.02	0.02	0.00	-	0.00	0.00	-	0.00	0.00	2.9	0.00	0.00	2.9
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Telescoping Fork	Rough Terrain Forklifts	4	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.02	0.23	0.00	-	0.00	0.00	-	0.00	0.00	29.7	0.00	0.00	29.8
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Conc Pump	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.00	0.03	0.02	0.00	-	0.00	0.00	-	0.00	0.00	3.4	0.00	0.00	3.4
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.01	0.01	0.00	-	0.00	0.00	-	0.00	0.00	1.6	0.00	0.00	1.6
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.01	0.01	0.00	-	0.00	0.00	-	0.00	0.00	1.6	0.00	0.00	1.6
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.00	0.00	0.05	0.00	-	0.00	0.00	-	0.00	0.00	6.3	0.00	0.00	6.3
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.00	0.02	0.00	-	0.00	0.00	-	0.00	0.00	3.2	0.00	0.00	3.2
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.00	0.02	0.02	0.00	-	0.00	0.00	-	0.00	0.00	2.7	0.00	0.00	2.7
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.00	0.00	0.00	-	0.00	0.00	-	0.00	0.00	0.4	0.00	0.00	0.4
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.00	0.03	0.00	-	0.00	0.00	-	0.00	0.00	4.0	0.00	0.00	4.0
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.00	0.00	0.05	0.00	-	0.00	0.00	-	0.00	0.00	6.0	0.00	0.00	6.0
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.00	0.05	0.00	-	0.00	0.00	-	0.00	0.00	6.2	0.00	0.00	6.2
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.00	0.01	0.08	0.00	-	0.00	0.00	-	0.00	0.00	14.6	0.00	0.00	14.7
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Compactor	Plate Compactors	2	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.01	0.00	0.00	-	0.00	0.00	-	0.00	0.00	0.7	0.00	0.00	0.7
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Asphalt Paver	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.00	0.00	0.03	0.00	-	0.00	0.00	-	0.00	0.00	3.3	0.00	0.00	3.4
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Asphalt roller	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.02	0.02	0.00	-	0.00	0.00	-	0.00	0.00	3.0	0.00	0.00	3.0
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.07	0.09	0.00	-	0.00	0.00	-	0.00	0.00	12.0	0.00	0.00	12.0
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.07	0.09	0.00	-	0.00	0.00	-	0.00	0.00	12.0	0.00	0.00	12.0
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.00	0.03	0.37	0.00	-	0.00	0.00	-	0.00	0.00	47.9	0.00	0.00	48.1
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.19	0.00	-	0.00	0.00	-	0.00	0.00	24.5	0.00	0.00	24.6
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.01	0.13	0.17	0.00	-	0.00	0.00	-	0.00	0.00	20.6	0.00	0.00	20.6
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.02	0.02	0.00	-	0.00	0.00	-	0.00	0.00	2.9	0.00	0.00	2.9
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.02	0.23	0.00	-	0.00	0.00	-	0.00	0.00	30.2	0.00	0.00	30.3
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Large Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.03	0.03	0.00	-	0.00	0.00	-	0.00	0.00	4.4	0.00	0.00	4.4
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.00	0.07	0.00	-	0.00	0.00	-	0.00	0.00	8.9	0.00	0.00	9.0
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.00	0.02	0.23	0.00	-	0.00	0.00	-	0.00	0.00	42.5	0.00	0.00	42.7
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.01	0.01	0.00	-	0.00	0.00	-	0.00	0.00	1.1	0.00	0.00	1.1
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Large Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.02	0.02	0.00	-	0.00	0.00	-	0.00	0.00	2.9	0.00	0.00	3.0
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.00	0.01	0.09	0.00	-	0.00	0.00	-	0.00	0.00	11.8	0.00	0.00	11.8
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.00	0.05	0.00	-	0.00	0.00	-	0.00	0.00	6.0	0.00	0.00	6.0
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Dozer-1ea	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.00	0.02	0.15	0.00	-	0.00	0.00	-	0.00	0.00	28.6	0.00	0.00	28.7
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.01	0.00	0.00	-	0.00	0.00	-	0.00	0.00	0.7	0.00	0.00	0.7
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Compactor	Plate Compactors	4	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.02	0.02	0.00	-	0.00	0.00	-	0.00	0.00	2.9	0.00	0.00	2.9
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Telescoping Fork	Rough Terrain Forklifts	4	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.02	0.23	0.00	-	0.00	0.00	-	0.00	0.00	29.7	0.00	0.00	29.8
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Conc Pump	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.00	0.03	0.02	0.00	-	0.00	0.00	-	0.00	0.00	3.4	0.00	0.00	3.4
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.01	0.01	0.00	-	0.00	0.00	-	0.00	0.00	1.6	0.00	0.00	1.6
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.01	0.01	0.00	-	0.00	0.00	-	0.00	0.00	1.6	0.00	0.00	1.6
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.00	0.00	0.05	0.00	-	0.00	0.00	-	0.00	0.00	6.3	0.00	0.00	6.3
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.00	0.02	0.00	-	0.00	0.00	-	0.00	0.00	3.2	0.00	0.00	3.2
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.00	0.02	0.02	0.00	-	0.00	0.00	-	0.00	0.00	2.7	0.00	0.00	2.7
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.00	0.00	0.00	-	0.00	0.00	-	0.00	0.00	0.4	0.00	0.00	0.4
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.00	0.03	0.00	-	0.00	0.00	-	0.00	0.00	4.0	0.00	0.00	4.0
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.00	0.00	0.05	0.00	-	0.00	0.00	-	0.00	0.00	6.0	0.00	0.00	6.0
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.00	0.05	0.00	-	0.00	0.00	-	0.00	0.00	6.2	0.00	0.00	6.2
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.00	0.01	0.08	0.00	-	0.00	0.00	-	0.00	0.00	14.6	0.00	0.00	14.7
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Compactor	Plate Compactors	2	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.01	0.00	0.00	-	0.00	0.00	-	0.00	0.00	0.7	0.00	0.00	0.7
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Asphalt Paver	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.00	0.00	0.03	0.00	-	0.00	0.00	-	0.00	0.00	3.3	0.00	0.00	3.4
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Asphalt roller	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.02	0.02	0.00	-	0.00	0.00	-	0.00	0.00	3.0	0.00	0.00	3.0
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.02	0.17	0.21	0.00	-	0.00	0.00	-	0.00	0.00	26.9	0.00	0.00	27.0
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.02	0.17	0.21	0.00	-	0.00	0.00	-	0.00	0.00	26.9	0.00	0.00	27.0
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.01	0.06	0.83	0.00	-	0.00	0.00	-	0.00	0.00	107.9	0.00	0.00	108.3
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.01	0.03	0.42	0.00	-	0.00	0.00	-	0.00	0.00	55.1	0.00	0.00	55.3
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.03	0.29	0.38	0.00	-	0.00	0.00	-	0.00	0.00	46.2	0.00	0.00	46.4
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.01	0.05	0.04	0.00	-	0.00	0.00	-	0.00	0.00	6.5	0.00	0.00	6.6
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.01	0.04	0.52	0.00	-	0.00	0.00	-	0.00	0.00	68.0	0.00	0.00	68.2
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.03	0.03	0.00	-	0.00	0.00	-	0.00	0.00	4.4	0.00	0.00	4.4
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.03	0.03	0.00	-	0.00	0.00	-	0.00	0.00	4.4	0.00	0.00	4.4
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.00	0.01	0.13	0.00	-	0.00	0.00	-	0.00	0.00	17.5	0.00	0.00	17.6
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.00	0.07	0.00	-	0.00	0.00	-	0.00	0.00	8.9	0.00	0.00	9.0
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.00	0.05	0.06	0.00	-	0.00	0.00	-	0.00	0.00	7.5	0.00	0.00	7.5
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.01	0.01	0.00	-	0.00	0.00	-	0.00	0.00	1.1	0.00	0.00	1.1
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.01	0.09	0.00	-	0.00	0.00	-	0.00	0.00	11.0	0.00	0.00	11.1
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Large Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.03	0.03	0.00	-	0.00	0.00	-	0.00	0.00	4.4	0.00	0.00	4.5
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.03	0.03	0.00	-	0.00	0.00	-	0.00	0.00	4.4	0.00	0.00	4.5
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.00	0.01	0.14	0.00	-	0.00	0.00	-	0.00	0.00	17.8	0.00	0.00	17.9
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.14	0.00	-	0.00	0.00	-	0.00	0.00	18.2	0.00	0.00	18.2
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.00	0.02	0.23	0.00	-	0.00	0.00	-	0.00	0.00	43.2	0.00	0.00	43.3
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	623 Scraper	Scrapers	2	8.5	423	0.48	Diesel	Tier 4 Final	0.01	0.06	0.64	0.00	-	0.00	0.00	-	0.00	0.00	118.6	0.00	0.00	119.0
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Compactor	Plate Compactors	2	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.02	0.01	0.00	-	0.00	0.00	-	0.00	0.00	2.2	0.00	0.00	2.2

Sepulveda Transit Corridor Project - ALTERNATIVE 1

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Emission Factor (g/bhp-hr)[3] ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	RTG Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Manlift	Aerial Lifts	2	8.5	46	0.31	Diesel	Fleet Avg	0.14	2.85	3.06	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.32	3.17	4.22	0.01	-	0.03	0.03	-	0.03	0.03	573.94	0.02	0.00
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.36	0.02	0.00
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	532.42	0.02	0.00
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Compactor	Plate Compactors	2	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.35	0.02	0.00
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Asphalt Paver	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	525.86	0.02	0.00
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Asphalt roller	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.37	3.36	3.94	0.01	-	0.09	0.09	-	0.08	0.08	587.11	0.02	0.00
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.31	3.28	4.17	0.01	-	0.06	0.06	-	0.05	0.05	588.07	0.02	0.00
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.31	3.28	4.17	0.01	-	0.06	0.06	-	0.05	0.05	588.07	0.02	0.00
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.33	3.22	4.23	0.01	-	0.04	0.04	-	0.03	0.03	573.27	0.02	0.00
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.29	0.02	0.00
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.32	3.17	4.22	0.01	-	0.03	0.03	-	0.03	0.03	573.94	0.02	0.00
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.36	0.02	0.00
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Large Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	532.42	0.02	0.00
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	623 Scraper	Scrapers	2	8.5	423	0.48	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	528.52	0.02	0.00
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Compactor	Plate Compactors	2	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.36	0.02	0.00
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	2033	RTG Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	2033	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	2033	Manlift	Aerial Lifts	2	8.5	46	0.31	Diesel	Fleet Avg	0.14	2.85	3.06	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	2034	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.27	3.24	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	2034	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.27	3.24	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	2034	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	2034	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	2034	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.32	3.15	4.22	0.01	-	0.02	0.02	-	0.02	0.02	573.68	0.02	0.00
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	2034	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.35	0.02	0.00
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	2034	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	2035	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	2035	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	2035	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	532.42	0.02	0.00
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	2035	Compactor	Plate Compactors	2	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.36	0.02	0.00
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	2035	Asphalt Paver	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	525.85	0.02	0.00
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	2035	Asphalt roller	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.32	3.92	0.01	-	0.08	0.08	-	0.07	0.07	587.11	0.02	0.00
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.35	3.29	4.26	0.01	-	0.05	0.05	-	0.04	0.04	574.49	0.02	0.00
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.34	0.02	0.00
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Asphalt Paver	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	525.84	0.02	0.00
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Asphalt Roller	Rollers	1	8.5	36	0.38	Diesel	Fleet Avg	0.49	3.48	4.09	0.01	-	0.13	0.13	-	0.12	0.12	587.11	0.02	0.00
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Jack and Bore Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.33	0.02	0.00
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.35	3.29	4.26	0.01	-	0.05	0.05	-	0.04	0.04	574.49	0.02	0.00
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.34	0.02	0.00
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Asphalt Paver	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	525.84	0.02	0.00
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Asphalt Roller	Rollers	1	8.5	36	0.38	Diesel	Fleet Avg	0.49	3.48	4.09	0.01	-	0.13	0.13	-	0.12	0.12	587.11	0.02	0.00
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Jack and Bore Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.33	0.02	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 1

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Daily Emissions (lb/day) ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	RTG Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.08	0.65	0.45	0.00	-	0.02	0.02	-	0.02	0.02	86.7	0.00	0.00
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Manlift	Aerial Lifts	2	8.5	46	0.31	Diesel	Fleet Avg	0.08	1.52	1.64	0.00	-	0.01	0.01	-	0.01	0.01	313.7	0.01	0.00
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.14	1.43	1.91	0.00	-	0.01	0.01	-	0.01	0.01	259.1	0.01	0.00
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.14	0.72	7.15	0.01	-	0.03	0.03	-	0.03	0.03	1464.7	0.06	0.01
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Compactor	Plate Compactors	2	8.5	8	0.43	Diesel	Fleet Avg	0.07	0.53	0.45	0.00	-	0.02	0.02	-	0.02	0.02	73.3	0.00	0.00
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Asphalt Paver	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.03	0.17	2.36	0.00	-	0.01	0.01	-	0.01	0.01	335.2	0.01	0.00
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Asphalt roller	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.19	1.72	2.02	0.00	-	0.04	0.04	-	0.04	0.04	301.0	0.01	0.00
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.08	0.84	1.07	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.08	0.84	1.07	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.15	1.45	1.91	0.00	-	0.02	0.02	-	0.02	0.02	258.8	0.01	0.00
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.14	1.43	1.91	0.00	-	0.01	0.01	-	0.01	0.01	259.1	0.01	0.00
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Large Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.06	0.30	4.31	0.01	-	0.01	0.01	-	0.01	0.01	616.5	0.03	0.01
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.14	0.72	7.15	0.01	-	0.03	0.03	-	0.03	0.03	1464.7	0.06	0.01
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	623 Scraper	Scrapers	2	8.5	423	0.48	Diesel	Tier 4 Final	0.38	1.98	19.79	0.04	-	0.08	0.08	-	0.08	0.08	4021.9	0.16	0.03
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Compactor	Plate Compactors	2	8.5	8	0.43	Diesel	Fleet Avg	0.07	0.53	0.45	0.00	-	0.02	0.02	-	0.02	0.02	73.3	0.00	0.00
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	2033	RTG Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	2033	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.08	0.65	0.45	0.00	-	0.02	0.02	-	0.02	0.02	86.7	0.00	0.00
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	2033	Manlift	Aerial Lifts	2	8.5	46	0.31	Diesel	Fleet Avg	0.08	1.52	1.64	0.00	-	0.01	0.01	-	0.01	0.01	313.7	0.01	0.00
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	2034	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.83	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	2034	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.83	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	2034	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	2034	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	2034	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.14	1.42	1.90	0.00	-	0.01	0.01	-	0.01	0.01	259.0	0.01	0.00
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	2034	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	2034	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	2035	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	2035	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	2035	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.14	0.72	7.15	0.01	-	0.03	0.03	-	0.03	0.03	1464.7	0.06	0.01
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	2035	Compactor	Plate Compactors	2	8.5	8	0.43	Diesel	Fleet Avg	0.07	0.53	0.45	0.00	-	0.02	0.02	-	0.02	0.02	73.3	0.00	0.00
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	2035	Asphalt Paver	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.03	0.17	2.36	0.00	-	0.01	0.01	-	0.01	0.01	335.2	0.01	0.00
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	2035	Asphalt roller	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.18	1.70	2.01	0.00	-	0.04	0.04	-	0.04	0.04	301.0	0.01	0.00
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.16	1.49	1.92	0.00	-	0.02	0.02	-	0.02	0.02	259.3	0.01	0.00
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Asphalt Paver	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.03	0.17	2.36	0.00	-	0.01	0.01	-	0.01	0.01	335.2	0.01	0.00
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Asphalt Roller	Rollers	1	8.5	36	0.38	Diesel	Fleet Avg	0.13	0.89	1.05	0.00	-	0.03	0.03	-	0.03	0.03	150.5	0.01	0.00
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Jack and Bore Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.04	0.20	2.88	0.00	-	0.01	0.01	-	0.01	0.01	407.0	0.02	0.00
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.16	1.49	1.92	0.00	-	0.02	0.02	-	0.02	0.02	259.3	0.01	0.00
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Asphalt Paver	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.03	0.17	2.36	0.00	-	0.01	0.01	-	0.01	0.01	335.2	0.01	0.00
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Asphalt Roller	Rollers	1	8.5	36	0.38	Diesel	Fleet Avg	0.13	0.89	1.05	0.00	-	0.03	0.03	-	0.03	0.03	150.5	0.01	0.00
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Jack and Bore Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.04	0.20	2.88	0.00	-	0.01	0.01	-	0.01	0.01	407.0	0.02	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 1

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Total Emissions (tons) ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	Total Emissions (metric tons) CO_2	CH_4	N_2O	CO_2e
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	RTG Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.00	0.01	0.11	0.00	-	0.00	0.00	-	0.00	0.00	21.0	0.00	0.00	21.1
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.00	0.01	0.11	0.00	-	0.00	0.00	-	0.00	0.00	21.0	0.00	0.00	21.1
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.01	0.12	0.00	-	0.00	0.00	-	0.00	0.00	15.2	0.00	0.00	15.2
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.00	0.05	0.00	-	0.00	0.00	-	0.00	0.00	6.2	0.00	0.00	6.2
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.00	0.01	0.01	0.00	-	0.00	0.00	-	0.00	0.00	1.7	0.00	0.00	1.7
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Manlift	Aerial Lifts	2	8.5	46	0.31	Diesel	Fleet Avg	0.00	0.03	0.04	0.00	-	0.00	0.00	-	0.00	0.00	6.3	0.00	0.00	6.3
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.05	0.07	0.00	-	0.00	0.00	-	0.00	0.00	8.8	0.00	0.00	8.9
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.05	0.07	0.00	-	0.00	0.00	-	0.00	0.00	8.8	0.00	0.00	8.9
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.00	0.02	0.27	0.00	-	0.00	0.00	-	0.00	0.00	35.3	0.00	0.00	35.5
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.14	0.00	-	0.00	0.00	-	0.00	0.00	18.0	0.00	0.00	18.1
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.01	0.09	0.12	0.00	-	0.00	0.00	-	0.00	0.00	15.2	0.00	0.00	15.2
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.02	0.01	0.00	-	0.00	0.00	-	0.00	0.00	2.1	0.00	0.00	2.2
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.01	0.17	0.00	-	0.00	0.00	-	0.00	0.00	22.3	0.00	0.00	22.3
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.00	0.01	0.09	0.00	-	0.00	0.00	-	0.00	0.00	11.8	0.00	0.00	11.8
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.00	0.05	0.00	-	0.00	0.00	-	0.00	0.00	6.0	0.00	0.00	6.0
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.00	0.02	0.15	0.00	-	0.00	0.00	-	0.00	0.00	28.6	0.00	0.00	28.7
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Compactor	Plate Compactors	2	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.01	0.01	0.00	-	0.00	0.00	-	0.00	0.00	1.4	0.00	0.00	1.4
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Asphalt Paver	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.00	0.00	0.05	0.00	-	0.00	0.00	-	0.00	0.00	6.5	0.00	0.00	6.6
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Asphalt roller	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.04	0.04	0.00	-	0.00	0.00	-	0.00	0.00	5.9	0.00	0.00	5.9
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.02	0.17	0.21	0.00	-	0.00	0.00	-	0.00	0.00	26.9	0.00	0.00	27.0
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.02	0.17	0.21	0.00	-	0.00	0.00	-	0.00	0.00	26.9	0.00	0.00	27.0
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.01	0.06	0.83	0.00	-	0.00	0.00	-	0.00	0.00	107.9	0.00	0.00	108.3
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.01	0.03	0.42	0.00	-	0.00	0.00	-	0.00	0.00	55.1	0.00	0.00	55.3
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.03	0.29	0.38	0.00	-	0.00	0.00	-	0.00	0.00	46.2	0.00	0.00	46.4
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.01	0.05	0.04	0.00	-	0.00	0.00	-	0.00	0.00	6.5	0.00	0.00	6.6
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.01	0.04	0.52	0.00	-	0.00	0.00	-	0.00	0.00	68.0	0.00	0.00	68.2
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.03	0.03	0.00	-	0.00	0.00	-	0.00	0.00	4.4	0.00	0.00	4.4
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.03	0.03	0.00	-	0.00	0.00	-	0.00	0.00	4.4	0.00	0.00	4.4
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.00	0.01	0.13	0.00	-	0.00	0.00	-	0.00	0.00	17.5	0.00	0.00	17.6
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.00	0.07	0.00	-	0.00	0.00	-	0.00	0.00	8.9	0.00	0.00	9.0
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.00	0.05	0.06	0.00	-	0.00	0.00	-	0.00	0.00	7.5	0.00	0.00	7.5
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.01	0.01	0.00	-	0.00	0.00	-	0.00	0.00	1.1	0.00	0.00	1.1
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.01	0.09	0.00	-	0.00	0.00	-	0.00	0.00	11.0	0.00	0.00	11.1
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Large Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.03	0.03	0.00	-	0.00	0.00	-	0.00	0.00	4.4	0.00	0.00	4.5
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.03	0.03	0.00	-	0.00	0.00	-	0.00	0.00	4.4	0.00	0.00	4.5
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.00	0.01	0.14	0.00	-	0.00	0.00	-	0.00	0.00	17.8	0.00	0.00	17.9
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.14	0.00	-	0.00	0.00	-	0.00	0.00	18.2	0.00	0.00	18.2
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.00	0.02	0.23	0.00	-	0.00	0.00	-	0.00	0.00	43.2	0.00	0.00	43.3
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	623 Scraper	Scrapers	2	8.5	423	0.48	Diesel	Tier 4 Final	0.01	0.06	0.64	0.00	-	0.00	0.00	-	0.00	0.00	118.6	0.00	0.00	119.0
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Compactor	Plate Compactors	2	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.02	0.01	0.00	-	0.00	0.00	-	0.00	0.00	2.2	0.00	0.00	2.2
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	2033	RTG Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.02	0.08	0.79	0.00	-	0.00	0.00	-	0.00	0.00	145.6	0.01	0.00	146.1
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.02	0.08	0.79	0.00	-	0.00	0.00	-	0.00	0.00	145.6	0.01	0.00	146.1
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.01	0.06	0.81	0.00	-	0.00	0.00	-	0.00	0.00	105.3	0.00	0.00	105.6
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.02	0.33	0.00	-	0.00	0.00	-	0.00	0.00	42.6	0.00	0.00	42.8
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	2033	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.01	0.10	0.07	0.00	-	0.00	0.00	-	0.00	0.00	12.0	0.00	0.00	12.0
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	2033	Manlift	Aerial Lifts	2	8.5	46	0.31	Diesel	Fleet Avg	0.01	0.23	0.25	0.00	-	0.00	0.00	-	0.00	0.00	43.4	0.00	0.00	43.5
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	2034	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.06	0.08	0.00	-	0.00	0.00	-	0.00	0.00	10.3	0.00	0.00	10.4
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	2034	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.06	0.08	0.00	-	0.00	0.00	-	0.00	0.00	10.3	0.00	0.00	10.4
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	2034	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.00	0.02	0.32	0.00	-	0.00	0.00	-	0.00	0.00	41.4	0.00	0.00	41.5
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	2034	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.16	0.00	-	0.00	0.00	-	0.00	0.00	21.1	0.00	0.00	21.2
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	2034	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.01	0.11	0.14	0.00	-	0.00	0.00	-	0.00	0.00	17.7	0.00	0.00	17.8
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	2034	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.02	0.02	0.00	-	0.00	0.00	-	0.00	0.00	2.5	0.00	0.00	2.5
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	2034	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.01	0.20	0.00	-	0.00	0.00	-	0.00	0.00	26.1	0.00	0.00	26.1
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	2035	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.00	0.01	0.09	0.00	-	0.00	0.00	-	0.00	0.00	12.1	0.00	0.00	12.1
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	2035	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.00	0.05	0.00	-	0.00	0.00	-	0.00	0.00	6.2	0.00	0.00	6.2
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	2035	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.00	0.02	0.16	0.00	-	0.00	0.00	-	0.00	0.00	29.2	0.00	0.00	29.3
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	2035	Compactor	Plate Compactors	2	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.01	0.01	0.00	-	0.00	0.00	-	0.00	0.00	1.5	0.00	0.00	1.5
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	2035	Asphalt Paver	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.00	0.00	0.05	0.00	-	0.00	0.00	-	0.00	0.00	6.7	0.00	0.00	6.7
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	2035	Asphalt roller	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.04	0.04	0.00	-	0.00	0.00	-	0.00	0.00	6.0	0.00	0.00	6.0
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.05	0.06	0.00	-	0.00	0.00	-	0.00	0.00	7.5	0.00	0.00	7.5
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.05	0.06	0.00	-	0.00	0.00	-	0.00	0.00	7.5	0.00	0.00	7.5
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.00	0.02	0.23	0.00	-	0.00	0.00	-	0.00	0.00	30.1	0.00	0.00	30.2
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.12	0.00	-	0.00	0.00	-	0.00	0.00	15.4	0.00	0.00	15.4
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.12	0.00	-	0.00	0.00	-	0.00	0.00	15.4	0.00	0.00	15.4
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.01	0.08	0.11	0.00	-	0.00	0.00	-	0.00	0.00	12.9	0.00	0.00	13.0
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.01	0.01	0.00	-	0.00	0.00	-	0.00	0.00	1.8	0.00	0.00	1.8
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.01	0.15	0.00	-	0.00	0.00	-	0.00	0.00	19.0	0.00	0.00	19.0
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Asphalt Paver	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.00	0.01	0.13	0.00	-	0.00	0.00	-	0.00	0.00	16.7	0.00	0.00	16.8
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Asphalt Roller	Rollers	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.05	0.06	0.00	-	0.00	0.00	-	0.00	0.00	7.5	0.00	0.00	7.5
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Jack and Bore Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.00	0.01	0.16	0.00	-	0.00	0.00	-	0.00	0.00	20.3	0.00	0.00	20.4
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.07	0.08	0.00	-	0.00	0.00	-	0.00	0.00	10.5	0.00	0.00	10.6
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.07	0.08	0.00	-	0.00	0.00	-	0.00	0.00	10.5	0.00	0.00	10.6
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.00	0.02	0.32	0.00	-	0.00	0.00	-	0.00	0.00	42.2	0.00	0.00	42.3
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.17	0.00	-	0.00	0.00	-	0.00	0.00	21.5	0.00	0.00	21.6
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.17	0.00	-	0.00	0.00	-	0.00	0.00	21.5	0.00	0.00	21.6
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.01	0.11	0.15	0.00	-	0.00	0.00	-	0.00	0.00	18.1	0.00	0.00	18.2
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.02	0.02	0.00	-	0.00	0.00	-	0.00	0.00	2.6	0.00	0.00	2.6
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.01	0.21	0.00	-	0.00	0.00	-	0.00	0.00	26.6	0.00	0.00	26.7
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Asphalt Paver	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.00	0.01	0.18	0.00	-	0.00	0.00	-	0.00	0.00	23.4	0.00	0.00	23.5
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Asphalt Roller	Rollers	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.07	0.08	0.00	-	0.00	0.00	-	0.00	0.00	10.5	0.00	0.00	10.5
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Jack and Bore Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.00	0.02	0.22	0.00	-	0.00	0.00	-	0.00	0.00	28.4	0.00	0.00	28.5

Sepulveda Transit Corridor Project - ALTERNATIVE 1

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Emission Factor (g/bhp-hr)[3] ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.35	3.29	4.26	0.01	-	0.05	0.05	-	0.04	0.04	574.49	0.02	0.00
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.34	0.02	0.00
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Asphalt Paver	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	525.84	0.02	0.00
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Asphalt Roller	Rollers	1	8.5	36	0.38	Diesel	Fleet Avg	0.49	3.48	4.09	0.01	-	0.13	0.13	-	0.12	0.12	587.11	0.02	0.00
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Jack and Bore Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.33	0.02	0.00
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.35	3.29	4.26	0.01	-	0.05	0.05	-	0.04	0.04	574.49	0.02	0.00
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.34	0.02	0.00
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Asphalt Paver	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	525.84	0.02	0.00
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Asphalt Roller	Rollers	1	8.5	36	0.38	Diesel	Fleet Avg	0.49	3.48	4.09	0.01	-	0.13	0.13	-	0.12	0.12	587.11	0.02	0.00
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Jack and Bore Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.33	0.02	0.00
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.35	3.29	4.26	0.01	-	0.05	0.05	-	0.04	0.04	574.49	0.02	0.00
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.34	0.02	0.00
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Large Excavator	Excavators	4	8.5	36	0.38	Diesel	Fleet Avg	0.33	3.30	4.19	0.01	-	0.07	0.07	-	0.06	0.06	588.07	0.02	0.00
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Wheel Loader	Tractors/Loaders/Backhoes	4	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Dozer	Rubber Tired Dozers	4	8.5	367	0.4	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	532.38	0.02	0.00
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Compactor	Plate Compactors	4	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.37	0.02	0.00
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Large Excavator	Excavators	4	8.5	36	0.38	Diesel	Fleet Avg	0.31	3.28	4.17	0.01	-	0.06	0.06	-	0.05	0.05	588.07	0.02	0.00
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Motor Grader	Graders	4	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Wheel Loader	Tractors/Loaders/Backhoes	4	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Dozer-1ea	Rubber Tired Dozers	8	8.5	367	0.4	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	532.38	0.02	0.00
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	623 Scraper	Scrapers	4	8.5	423	0.48	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	528.52	0.02	0.00
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Compactor	Plate Compactors	4	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.29	0.02	0.00
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Compactor	Plate Compactors	4	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.29	0.02	0.00
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Telescoping Fork	Rough Terrain Forklifts	4	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Slip Form Paver	Pavers	2	8.5	81	0.42	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	525.85	0.02	0.00
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.35	3.29	4.26	0.01	-	0.05	0.05	-	0.04	0.04	574.49	0.02	0.00
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.34	0.02	0.00
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Large Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	532.42	0.02	0.00
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	623 Scraper	Scrapers	2	8.5	423	0.48	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	528.52	0.02	0.00
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Compactor	Plate Compactors	2	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.34	0.02	0.00
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Gantry Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	RTG Crane	Cranes	4	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Hydraulic Crane	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Telescoping Fork	Rough Terrain Forklifts	4	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Concrete Pump	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.26	2.98	0.01	-	0.17	0.17	-	0.15	0.15	568.32	0.02	0.00
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Manlift	Aerial Lifts	2	8.5	46	0.31	Diesel	Fleet Avg	0.15	2.86	3.07	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.33	3.30	4.19	0.01	-	0.07	0.07	-	0.06	0.06	588.07	0.02	0.00
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.33	3.30	4.19	0.01	-	0.07	0.07	-	0.06	0.06	588.07	0.02	0.00
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.34	3.25	4.24	0.01	-	0.04	0.04	-	0.04	0.04	574.00	0.02	0.00
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.37	0.02	0.00
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Wheel Loader	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	532.38	0.02	0.00
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Compactor	Plate Compactors	2	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.37	0.02	0.00
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Asphalt Paver	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	525.84	0.02	0.00
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Asphalt roller	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.47	3.46	4.06	0.01	-	0.12	0.12	-	0.11	0.11	587.11	0.02	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 1

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Daily Emissions (lb/day) ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.16	1.49	1.92	0.00	-	0.02	0.02	-	0.02	0.02	259.3	0.01	0.00
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Asphalt Paver	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.03	0.17	2.36	0.00	-	0.01	0.01	-	0.01	0.01	335.2	0.01	0.00
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Asphalt Roller	Rollers	1	8.5	36	0.38	Diesel	Fleet Avg	0.13	0.89	1.05	0.00	-	0.03	0.03	-	0.03	0.03	150.5	0.01	0.00
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Jack and Bore Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.04	0.20	2.88	0.00	-	0.01	0.01	-	0.01	0.01	407.0	0.02	0.00
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.16	1.49	1.92	0.00	-	0.02	0.02	-	0.02	0.02	259.3	0.01	0.00
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Asphalt Paver	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.03	0.17	2.36	0.00	-	0.01	0.01	-	0.01	0.01	335.2	0.01	0.00
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Asphalt Roller	Rollers	1	8.5	36	0.38	Diesel	Fleet Avg	0.13	0.89	1.05	0.00	-	0.03	0.03	-	0.03	0.03	150.5	0.01	0.00
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Jack and Bore Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.04	0.20	2.88	0.00	-	0.01	0.01	-	0.01	0.01	407.0	0.02	0.00
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.16	1.49	1.92	0.00	-	0.02	0.02	-	0.02	0.02	259.3	0.01	0.00
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Large Excavator	Excavators	4	8.5	36	0.38	Diesel	Fleet Avg	0.34	3.38	4.30	0.01	-	0.07	0.07	-	0.06	0.06	603.0	0.02	0.00
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Wheel Loader	Tractors/Loaders/Backhoes	4	8.5	84	0.37	Diesel	Tier 4 Final	0.12	0.61	8.62	0.01	-	0.02	0.02	-	0.02	0.02	1233.0	0.05	0.01
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Dozer	Rubber Tired Dozers	4	8.5	367	0.4	Diesel	Tier 4 Final	0.55	2.86	28.61	0.05	-	0.11	0.11	-	0.11	0.11	5858.2	0.24	0.05
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Compactor	Plate Compactors	4	8.5	8	0.43	Diesel	Fleet Avg	0.14	1.07	0.89	0.00	-	0.04	0.04	-	0.04	0.04	146.6	0.01	0.00
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Large Excavator	Excavators	4	8.5	36	0.38	Diesel	Fleet Avg	0.32	3.37	4.27	0.01	-	0.06	0.06	-	0.05	0.05	603.0	0.02	0.00
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Motor Grader	Graders	4	8.5	148	0.41	Diesel	Tier 4 Final	0.23	1.18	16.83	0.02	-	0.05	0.05	-	0.05	0.05	2415.4	0.10	0.02
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Wheel Loader	Tractors/Loaders/Backhoes	4	8.5	84	0.37	Diesel	Tier 4 Final	0.12	0.61	8.62	0.01	-	0.02	0.02	-	0.02	0.02	1233.0	0.05	0.01
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Dozer-1ea	Rubber Tired Dozers	8	8.5	367	0.4	Diesel	Tier 4 Final	1.10	5.72	57.22	0.11	-	0.22	0.22	-	0.22	0.22	#####	0.48	0.10
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	623 Scraper	Scrapers	4	8.5	423	0.48	Diesel	Tier 4 Final	0.76	3.96	39.57	0.07	-	0.15	0.15	-	0.15	0.15	8043.7	0.33	0.07
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Compactor	Plate Compactors	4	8.5	8	0.43	Diesel	Fleet Avg	0.14	1.07	0.89	0.00	-	0.04	0.04	-	0.04	0.04	146.5	0.01	0.00
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Compactor	Plate Compactors	4	8.5	8	0.43	Diesel	Fleet Avg	0.14	1.07	0.89	0.00	-	0.04	0.04	-	0.04	0.04	146.5	0.01	0.00
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Telescoping Fork	Rough Terrain Forklifts	4	8.5	96	0.4	Diesel	Tier 4 Final	0.14	0.75	10.65	0.01	-	0.03	0.03	-	0.03	0.03	1521.9	0.06	0.01
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Slip Form Paver	Pavers	2	8.5	81	0.42	Diesel	Tier 4 Final	0.06	0.33	4.72	0.01	-	0.01	0.01	-	0.01	0.01	670.5	0.03	0.01
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.16	1.49	1.92	0.00	-	0.02	0.02	-	0.02	0.02	259.3	0.01	0.00
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Large Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.06	0.30	4.31	0.01	-	0.01	0.01	-	0.01	0.01	616.5	0.03	0.01
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.14	0.72	7.15	0.01	-	0.03	0.03	-	0.03	0.03	1464.7	0.06	0.01
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	623 Scraper	Scrapers	2	8.5	423	0.48	Diesel	Tier 4 Final	0.38	1.98	19.79	0.04	-	0.08	0.08	-	0.08	0.08	4021.9	0.16	0.03
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Compactor	Plate Compactors	2	8.5	8	0.43	Diesel	Fleet Avg	0.07	0.53	0.45	0.00	-	0.02	0.02	-	0.02	0.02	73.3	0.00	0.00
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Gantry Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	RTG Crane	Cranes	4	8.5	367	0.29	Diesel	Tier 4 Final	0.40	2.07	20.74	0.04	-	0.08	0.08	-	0.08	0.08	4209.1	0.17	0.03
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Hydraulic Crane	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.20	1.04	10.37	0.02	-	0.04	0.04	-	0.04	0.04	2104.6	0.09	0.02
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Telescoping Fork	Rough Terrain Forklifts	4	8.5	96	0.4	Diesel	Tier 4 Final	0.14	0.75	10.65	0.01	-	0.03	0.03	-	0.03	0.03	1521.9	0.06	0.01
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.06	0.30	4.31	0.01	-	0.01	0.01	-	0.01	0.01	616.5	0.03	0.01
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Concrete Pump	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.17	1.30	0.91	0.00	-	0.05	0.05	-	0.05	0.05	173.4	0.01	0.00
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Manlift	Aerial Lifts	2	8.5	46	0.31	Diesel	Fleet Avg	0.08	1.53	1.64	0.00	-	0.01	0.01	-	0.01	0.01	313.7	0.01	0.00
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.08	0.85	1.07	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.08	0.85	1.07	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.15	1.47	1.91	0.00	-	0.02	0.02	-	0.02	0.02	259.1	0.01	0.00
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Wheel Loader	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.06	0.30	4.31	0.01	-	0.01	0.01	-	0.01	0.01	616.5	0.03	0.01
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.14	0.72	7.15	0.01	-	0.03	0.03	-	0.03	0.03	1464.5	0.06	0.01
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Compactor	Plate Compactors	2	8.5	8	0.43	Diesel	Fleet Avg	0.07	0.53	0.45	0.00	-	0.02	0.02	-	0.02	0.02	73.3	0.00	0.00
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Asphalt Paver	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.03	0.17	2.36	0.00	-	0.01	0.01	-	0.01	0.01	335.2	0.01	0.00
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Asphalt roller	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.24	1.77	2.08	0.00	-	0.06	0.06	-	0.06	0.06	301.0	0.01	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 1

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Total Emissions (tons) ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	Total Emissions (metric tons) CO_2	CH_4	N_2O	CO_2e
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.05	0.06	0.00	-	0.00	0.00	-	0.00	0.00	7.5	0.00	0.00	7.5
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.05	0.06	0.00	-	0.00	0.00	-	0.00	0.00	7.5	0.00	0.00	7.5
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.00	0.02	0.23	0.00	-	0.00	0.00	-	0.00	0.00	30.1	0.00	0.00	30.2
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.12	0.00	-	0.00	0.00	-	0.00	0.00	15.4	0.00	0.00	15.4
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.12	0.00	-	0.00	0.00	-	0.00	0.00	15.4	0.00	0.00	15.4
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.01	0.08	0.11	0.00	-	0.00	0.00	-	0.00	0.00	12.9	0.00	0.00	13.0
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.01	0.01	0.00	-	0.00	0.00	-	0.00	0.00	1.8	0.00	0.00	1.8
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.01	0.15	0.00	-	0.00	0.00	-	0.00	0.00	19.0	0.00	0.00	19.0
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Asphalt Paver	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.00	0.01	0.13	0.00	-	0.00	0.00	-	0.00	0.00	16.7	0.00	0.00	16.8
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Asphalt Roller	Rollers	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.05	0.06	0.00	-	0.00	0.00	-	0.00	0.00	7.5	0.00	0.00	7.5
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Jack and Bore Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.00	0.01	0.16	0.00	-	0.00	0.00	-	0.00	0.00	20.3	0.00	0.00	20.4
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.07	0.08	0.00	-	0.00	0.00	-	0.00	0.00	10.5	0.00	0.00	10.6
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.07	0.08	0.00	-	0.00	0.00	-	0.00	0.00	10.5	0.00	0.00	10.6
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.00	0.02	0.32	0.00	-	0.00	0.00	-	0.00	0.00	42.2	0.00	0.00	42.3
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.17	0.00	-	0.00	0.00	-	0.00	0.00	21.5	0.00	0.00	21.6
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.17	0.00	-	0.00	0.00	-	0.00	0.00	21.5	0.00	0.00	21.6
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.01	0.11	0.15	0.00	-	0.00	0.00	-	0.00	0.00	18.1	0.00	0.00	18.2
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.02	0.02	0.00	-	0.00	0.00	-	0.00	0.00	2.6	0.00	0.00	2.6
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.01	0.21	0.00	-	0.00	0.00	-	0.00	0.00	26.6	0.00	0.00	26.7
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Asphalt Paver	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.00	0.01	0.18	0.00	-	0.00	0.00	-	0.00	0.00	23.4	0.00	0.00	23.5
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Asphalt Roller	Rollers	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.07	0.08	0.00	-	0.00	0.00	-	0.00	0.00	10.5	0.00	0.00	10.5
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Jack and Bore Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.00	0.02	0.22	0.00	-	0.00	0.00	-	0.00	0.00	28.4	0.00	0.00	28.5
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.02	0.17	0.21	0.00	-	0.00	0.00	-	0.00	0.00	26.7	0.00	0.00	26.8
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.02	0.17	0.21	0.00	-	0.00	0.00	-	0.00	0.00	26.7	0.00	0.00	26.8
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.01	0.06	0.82	0.00	-	0.00	0.00	-	0.00	0.00	106.8	0.00	0.00	107.2
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.01	0.03	0.42	0.00	-	0.00	0.00	-	0.00	0.00	54.5	0.00	0.00	54.7
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.03	0.29	0.37	0.00	-	0.00	0.00	-	0.00	0.00	45.9	0.00	0.00	46.0
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.01	0.05	0.04	0.00	-	0.00	0.00	-	0.00	0.00	6.5	0.00	0.00	6.5
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.01	0.04	0.52	0.00	-	0.00	0.00	-	0.00	0.00	67.3	0.00	0.00	67.5
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Large Excavator	Excavators	4	8.5	36	0.38	Diesel	Fleet Avg	0.04	0.37	0.47	0.00	-	0.01	0.01	-	0.01	0.01	59.6	0.00	0.00	59.8
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Wheel Loader	Tractors/Loaders/Backhoes	4	8.5	84	0.37	Diesel	Tier 4 Final	0.01	0.07	0.94	0.00	-	0.00	0.00	-	0.00	0.00	121.9	0.00	0.00	122.3
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Dozer	Rubber Tired Dozers	4	8.5	367	0.4	Diesel	Tier 4 Final	0.06	0.31	3.12	0.01	-	0.01	0.01	-	0.01	0.01	579.3	0.02	0.00	581.3
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Compactor	Plate Compactors	4	8.5	8	0.43	Diesel	Fleet Avg	0.02	0.12	0.10	0.00	-	0.00	0.00	-	0.00	0.00	14.5	0.00	0.00	14.5
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Large Excavator	Excavators	4	8.5	36	0.38	Diesel	Fleet Avg	0.03	0.33	0.42	0.00	-	0.01	0.01	-	0.01	0.01	53.9	0.00	0.00	54.1
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Motor Grader	Graders	4	8.5	148	0.41	Diesel	Tier 4 Final	0.02	0.12	1.66	0.00	-	0.00	0.00	-	0.00	0.00	215.8	0.01	0.00	216.6
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Wheel Loader	Tractors/Loaders/Backhoes	4	8.5	84	0.37	Diesel	Tier 4 Final	0.01	0.06	0.85	0.00	-	0.00	0.00	-	0.00	0.00	110.2	0.00	0.00	110.6
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Dozer-1ea	Rubber Tired Dozers	8	8.5	367	0.4	Diesel	Tier 4 Final	0.11	0.56	5.64	0.01	-	0.02	0.02	-	0.02	0.02	1046.9	0.04	0.01	1050.5
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	623 Scraper	Scrapers	4	8.5	423	0.48	Diesel	Tier 4 Final	0.07	0.39	3.90	0.01	-	0.01	0.01	-	0.01	0.01	718.8	0.03	0.01	721.2
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Compactor	Plate Compactors	4	8.5	8	0.43	Diesel	Fleet Avg	0.01	0.11	0.09	0.00	-	0.00	0.00	-	0.00	0.00	13.1	0.00	0.00	13.1
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Compactor	Plate Compactors	4	8.5	8	0.43	Diesel	Fleet Avg	0.02	0.13	0.11	0.00	-	0.01	0.01	-	0.00	0.00	16.0	0.00	0.00	16.0
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Telescoping Fork	Rough Terrain Forklifts	4	8.5	96	0.4	Diesel	Tier 4 Final	0.02	0.09	1.28	0.00	-	0.00	0.00	-	0.00	0.00	165.7	0.01	0.00	166.2
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Slip Form Paver	Pavers	2	8.5	81	0.42	Diesel	Tier 4 Final	0.01	0.04	0.57	0.00	-	0.00	0.00	-	0.00	0.00	73.0	0.00	0.00	73.2
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.06	0.07	0.00	-	0.00	0.00	-	0.00	0.00	8.9	0.00	0.00	8.9
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.06	0.07	0.00	-	0.00	0.00	-	0.00	0.00	8.9	0.00	0.00	8.9
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.00	0.02	0.27	0.00	-	0.00	0.00	-	0.00	0.00	35.6	0.00	0.00	35.7
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.14	0.00	-	0.00	0.00	-	0.00	0.00	18.2	0.00	0.00	18.2
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.01	0.10	0.12	0.00	-	0.00	0.00	-	0.00	0.00	15.3	0.00	0.00	15.3
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.02	0.01	0.00	-	0.00	0.00	-	0.00	0.00	2.2	0.00	0.00	2.2
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.01	0.17	0.00	-	0.00	0.00	-	0.00	0.00	22.4	0.00	0.00	22.5
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Large Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.05	0.06	0.00	-	0.00	0.00	-	0.00	0.00	7.5	0.00	0.00	7.5
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.05	0.06	0.00	-	0.00	0.00	-	0.00	0.00	7.5	0.00	0.00	7.5
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.00	0.02	0.23	0.00	-	0.00	0.00	-	0.00	0.00	30.1	0.00	0.00	30.2
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.02	0.24	0.00	-	0.00	0.00	-	0.00	0.00	30.8	0.00	0.00	30.9
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.01	0.04	0.39	0.00	-	0.00	0.00	-	0.00	0.00	73.1	0.00	0.00	73.3
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	623 Scraper	Scrapers	2	8.5	423	0.48	Diesel	Tier 4 Final	0.02	0.11	1.09	0.00	-	0.00	0.00	-	0.00	0.00	200.7	0.01	0.00	201.4
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Compactor	Plate Compactors	2	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.03	0.02	0.00	-	0.00	0.00	-	0.00	0.00	3.7	0.00	0.00	3.7
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Gantry Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.01	0.03	0.28	0.00	-	0.00	0.00	-	0.00	0.00	51.1	0.00	0.00	51.2
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	RTG Crane	Cranes	4	8.5	367	0.29	Diesel	Tier 4 Final	0.02	0.11	1.11	0.00	-	0.00	0.00	-	0.00	0.00	204.3	0.01	0.00	205.0
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Hydraulic Crane	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.01	0.06	0.55	0.00	-	0.00	0.00	-	0.00	0.00	102.1	0.00	0.00	102.5
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Telescoping Fork	Rough Terrain Forklifts	4	8.5	96	0.4	Diesel	Tier 4 Final	0.01	0.04	0.57	0.00	-	0.00	0.00	-	0.00	0.00	73.9	0.00	0.00	74.1
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.02	0.23	0.00	-	0.00	0.00	-	0.00	0.00	29.9	0.00	0.00	30.0
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Concrete Pump	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.01	0.07	0.05	0.00	-	0.00	0.00	-	0.00	0.00	8.4	0.00	0.00	8.4
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Manlift	Aerial Lifts	2	8.5	46	0.31	Diesel	Fleet Avg	0.00	0.08	0.09	0.00	-	0.00	0.00	-	0.00	0.00	15.2	0.00	0.00	15.3
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.02	0.02	0.00	-	0.00	0.00	-	0.00	0.00	2.9	0.00	0.00	3.0
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.02	0.02	0.00	-	0.00	0.00	-	0.00	0.00	2.9	0.00	0.00	3.0
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.00	0.01	0.09	0.00	-	0.00	0.00	-	0.00	0.00	11.8	0.00	0.00	11.8
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.00	0.05	0.00	-	0.00	0.00	-	0.00	0.00	6.0	0.00	0.00	6.0
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.00	0.03	0.04	0.00	-	0.00	0.00	-	0.00	0.00	5.1	0.00	0.00	5.1
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.01	0.00	0.00	-	0.00	0.00	-	0.00	0.00	0.7	0.00	0.00	0.7
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.00	0.06	0.00	-	0.00	0.00	-	0.00	0.00	7.4	0.00	0.00	7.4
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.00	0.01	0.14	0.00	-	0.00	0.00	-	0.00	0.00	18.1	0.00	0.00	18.1
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Wheel Loader	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.14	0.00	-	0.00	0.00	-	0.00	0.00	18.5	0.00	0.00	18.5
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.00	0.02	0.24	0.00	-	0.00	0.00	-	0.00	0.00	43.8	0.00	0.00	44.0
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Compactor	Plate Compactors	2	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.02	0.01	0.00	-	0.00	0.00	-	0.00	0.00	2.2	0.00	0.00	2.2
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Asphalt Paver	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.00	0.01	0.08	0.00	-	0.00	0.00	-	0.00	0.00	10.0	0.00	0.00	10.1
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Asphalt roller	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.06	0.07	0.00	-	0.00	0.00	-	0.00	0.00	9.0	0.00	0.00	9.0

Sepulveda Transit Corridor Project - ALTERNATIVE 1

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Emission Factor (g/bhp-hr)[3] ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Cranes	Cranes	4	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Concrete Pumps	Pumps	4	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.25	2.97	0.01	-	0.17	0.17	-	0.15	0.15	568.35	0.02	0.00

Notes:

1. Data based on alternative specific information.
2. Horsepower and load factor based on default values for equipment in CalEEMod.
3. In accordance with Metro's Green Construction Policy, all off-road equipment equal to or greater than 50 HP would have emission factors for Tier 4 Final equipment, off-road equipment less than 50 HP would use fleet average emission factors from CalEEMod.
4. For Tunneling activities, the tunnel boring machine (TBM) (not listed) would be electric-powered.

EXH = Exhaust

FD = Fugitive Dust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 1

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Daily Emissions (lb/day) ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Cranes	Cranes	4	8.5	367	0.29	Diesel	Tier 4 Final	0.40	2.07	20.74	0.04	-	0.08	0.08	-	0.08	0.08	4209.1	0.17	0.03
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Concrete Pumps	Pumps	4	8.5	11	0.74	Diesel	Fleet Avg	0.34	2.59	1.81	0.00	-	0.10	0.10	-	0.09	0.09	346.8	0.01	0.00

Notes:

1. Data based on alternative specific information.
2. Horsepower and load factor based on default values for equipment in CalEEMod.
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4. For Tunneling activities, the tunnel boring machine (TBM) (not listed) would be electric-powered.

EXH = Exhaust

FD = Fugitive Dust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 1

OFFROAD EQUIPMENT (ONSITE)[1]

														Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Cranes	Cranes	4	8.5	367	0.29	Diesel	Tier 4 Final	0.16	0.81	8.11	0.02	-	0.03	0.03	-	0.03	0.03	1493.0	0.06	0.01	1498.1
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.03	0.15	2.08	0.00	-	0.01	0.01	-	0.01	0.01	269.9	0.01	0.00	270.8
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Concrete Pumps	Pumps	4	8.5	11	0.74	Diesel	Fleet Avg	0.13	1.01	0.71	0.00	-	0.04	0.04	-	0.04	0.04	123.0	0.00	0.00	123.4

Notes:

1. Data based on alternative specific information.
2. Horsepower and load factor based on default values for equipment in CalEEMod.
3. In accordance with Metro's Green Construction Policy, all off-road equipment equal to or greater than 50 HP would have emission factors for Tier 4 Final equipment, off-road equipment less than 50 HP would use fleet average emission factors from CalEEMod.
4. For Tunneling activities, the tunnel boring machine (TBM) (not listed) would be electric-powered.

EXH = Exhaust

FD = Fugitive Dust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 1

Demo Dust Control Reduction 36%

DEMOLITION FUGITIVE DUST (ONSITE)

								Demolition EF (lb pollutant/ton waste)[1]						Daily Emissions (lb/day)[2]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	Total Demo Debris Weight (tons)	Debris Weight (tons/day)	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	14816	23	0.022	-	0.022	0.003	-	0.003	0.314	-	0.314	0.047	-	0.047	0.103	-	0.103	0.016	-	0.016
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	3428	5	0.022	-	0.022	0.003	-	0.003	0.073	-	0.073	0.011	-	0.011	0.024	-	0.024	0.004	-	0.004
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH)	6/1/2032	3/31/2035	5	739	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembly	4/1/2035	8/31/2035	5	110	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	9/1/2035	10/31/2035	5	43	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	686	1	0.022	-	0.022	0.003	-	0.003	0.015	-	0.015	0.002	-	0.002	0.005	-	0.005	0.001	-	0.001
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	9/1/2033	10/31/2035	5	565	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2139	3	0.022	-	0.022	0.003	-	0.003	0.045	-	0.045	0.007	-	0.007	0.015	-	0.015	0.002	-	0.002
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	8/1/2032	5/31/2033	5	217	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	273	1	0.022	-	0.022	0.003	-	0.003	0.019	-	0.019	0.003	-	0.003	0.002	-	0.002	0.000	-	0.000
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	135	1	0.022	-	0.022	0.003	-	0.003	0.010	-	0.010	0.001	-	0.001	0.001	-	0.001	0.000	-	0.000
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	196	1	0.022	-	0.022	0.003	-	0.003	0.014	-	0.014	0.002	-	0.002	0.001	-	0.001	0.000	-	0.000
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	133	1	0.022	-	0.022	0.003	-	0.003	0.009	-	0.009	0.001	-	0.001	0.001	-	0.001	0.000	-	0.000
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	153	1	0.022	-	0.022	0.003	-	0.003	0.011	-	0.011	0.002	-	0.002	0.001	-	0.001	0.000	-	0.000
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	215	1	0.022	-	0.022	0.003	-	0.003	0.015	-	0.015	0.002	-	0.002	0.001	-	0.001	0.000	-	0.000
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	11/1/2032	12/31/2034	5	565	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	185	1	0.022	-	0.022	0.003	-	0.003	0.013	-	0.013	0.002	-	0.002	0.001	-	0.001	0.000	-	0.000
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	193	1	0.022	-	0.022	0.003	-	0.003	0.014	-	0.014	0.002	-	0.002	0.001	-	0.001	0.000	-	0.000
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Concrete Work	6/1/2033	7/31/2033	5	43	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 1

Demo Dust Control Reduction 36%

DEMOLITION FUGITIVE DUST (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	Total Demo Debris Weight (tons)	Debris Weight (tons/day)	Demolition EF (lb pollutant/ton waste)[1]						Daily Emissions (lb/day)[2]						Total Emissions (tons)					
								PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Concrete Work	6/1/2033	7/31/2033	5	43	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	163	3	0.022	-	0.022	0.003	-	0.003	0.035	-	0.035	0.005	-	0.005	0.001	-	0.001	0.000	-	0.000
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	750	12	0.022	-	0.022	0.003	-	0.003	0.162	-	0.162	0.025	-	0.025	0.005	-	0.005	0.001	-	0.001
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	13	0	0.022	-	0.022	0.003	-	0.003	0.002	-	0.002	0.000	-	0.000	0.000	-	0.000	0.000	-	0.000
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	13	0	0.022	-	0.022	0.003	-	0.003	0.001	-	0.001	0.000	-	0.000	0.000	-	0.000	0.000	-	0.000
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	13	0	0.022	-	0.022	0.003	-	0.003	0.002	-	0.002	0.000	-	0.000	0.000	-	0.000	0.000	-	0.000
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	13	0	0.022	-	0.022	0.003	-	0.003	0.001	-	0.001	0.000	-	0.000	0.000	-	0.000	0.000	-	0.000
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	40000	183	0.022	-	0.022	0.003	-	0.003	2.544	-	2.544	0.385	-	0.385	0.277	-	0.277	0.042	-	0.042
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	823	6	0.022	-	0.022	0.003	-	0.003	0.088	-	0.088	0.013	-	0.013	0.006	-	0.006	0.001	-	0.001
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

1. Emission factor based on CalEEMod default value.
2. Emissions account for application of water 2 times per day during demolition activities.

FD = Fugitive Dust

EXH = Exhaust

Sepulveda Transit Corridor Project - ALTERNATIVE 1

Dust Control Reduction 74%

TRUCK LOADING FUGITIVE DUST (ONSITE)

										Truck Loading EF (lb pollutant/ton throughput)[2]						Daily Emissions (lb/day)[3]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	Total Soil Volume (CY)	Soil Density (tons/CY)[1]	Total Throughput (tons)	Daily Throughput (tons)	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	124084	1.2642	156863	185	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.0053	-	0.0053	0.0008	-	0.0008	0.0023	-	0.0023	0.0003	-	0.0003
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH)	6/1/2032	3/31/2035	5	739	10	28708	1.2642	36292	49	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.0014	-	0.0014	0.0002	-	0.0002	0.0005	-	0.0005	0.0001	-	0.0001
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembly	4/1/2035	8/31/2035	5	110	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	9/1/2035	10/31/2035	5	43	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	5749	1.2642	7267	30	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.0009	-	0.0009	0.0001	-	0.0001	0.0001	-	0.0001	0.0000	-	0.0000
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	9/1/2033	10/31/2035	5	565	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	8/1/2032	5/31/2033	5	217	10	17918	1.2642	22652	104	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.0030	-	0.0030	0.0005	-	0.0005	0.0003	-	0.0003	0.0000	-	0.0000
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	580	1.2642	733	3	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.0001	-	0.0001	0.0000	-	0.0000	0.0000	-	0.0000	0.0000	-	0.0000
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	600	1.2642	758	4	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.0001	-	0.0001	0.0000	-	0.0000	0.0000	-	0.0000	0.0000	-	0.0000
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	630	1.2642	796	2	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.0000	-	0.0000	0.0000	-	0.0000	0.0000	-	0.0000	0.0000	-	0.0000
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	580	1.2642	733	3	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.0001	-	0.0001	0.0000	-	0.0000	0.0000	-	0.0000	0.0000	-	0.0000
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	590	1.2642	746	4	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.0001	-	0.0001	0.0000	-	0.0000	0.0000	-	0.0000	0.0000	-	0.0000
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	630	1.2642	796	9	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.0003	-	0.0003	0.0000	-	0.0000	0.0000	-	0.0000	0.0000	-	0.0000
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	11/1/2032	12/31/2034	5	565	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	595	1.2642	752	4	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.0001	-	0.0001	0.0000	-	0.0000	0.0000	-	0.0000	0.0000	-	0.0000
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	580	1.2642	733	3	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.0001	-	0.0001	0.0000	-	0.0000	0.0000	-	0.0000	0.0000	-	0.0000
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	1763	1.2642	2229	52	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.0015	-	0.0015	0.0002	-	0.0002	0.0000	-	0.0000	0.0000	-	0.0000
TPSS 2-Wilshire Blvd-Concrete Work	6/1/2033	7/31/2033	5	43	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 1

Dust Control Reduction 74%

TRUCK LOADING FUGITIVE DUST (ONSITE)

										Truck Loading EF (lb pollutant/ton throughput)[2]						Daily Emissions (lb/day)[3]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	Total Soil Volume (CY)	Soil Density (tons/CY)[1]	Total Throughput (tons)	Daily Throughput (tons)	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	1686	1.2642	2132	50	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.0014	-	0.0014	0.0002	-	0.0002	0.0000	-	0.0000	0.0000	-	0.0000
TPSS 3-Sunset Onramp-Concrete Work	6/1/2033	7/31/2033	5	43	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	1763	1.2642	2229	52	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.0015	-	0.0015	0.0002	-	0.0002	0.0000	-	0.0000	0.0000	-	0.0000
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	1763	1.2642	2229	52	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.0015	-	0.0015	0.0002	-	0.0002	0.0000	-	0.0000	0.0000	-	0.0000
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	5333	1.2642	6742	157	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.0045	-	0.0045	0.0007	-	0.0007	0.0001	-	0.0001	0.0000	-	0.0000
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	27818	1.2642	35167	541	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.0156	-	0.0156	0.0024	-	0.0024	0.0005	-	0.0005	0.0001	-	0.0001
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	7400	1.2642	9355	144	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.0042	-	0.0042	0.0006	-	0.0006	0.0001	-	0.0001	0.0000	-	0.0000
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	550	1.2642	695	6	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.0002	-	0.0002	0.0000	-	0.0000	0.0000	-	0.0000	0.0000	-	0.0000
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	570	1.2642	721	5	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.0001	-	0.0001	0.0000	-	0.0000	0.0000	-	0.0000	0.0000	-	0.0000
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	540	1.2642	683	6	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.0002	-	0.0002	0.0000	-	0.0000	0.0000	-	0.0000	0.0000	-	0.0000
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	600	1.2642	758	5	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.0001	-	0.0001	0.0000	-	0.0000	0.0000	-	0.0000	0.0000	-	0.0000
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	70000	1.2642	88492	449	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.0130	-	0.0130	0.0020	-	0.0020	0.0013	-	0.0013	0.0002	-	0.0002
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	54450	1.2642	68834	626	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.0181	-	0.0181	0.0027	-	0.0027	0.0010	-	0.0010	0.0002	-	0.0002
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	667	1.2642	843	20	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.0006	-	0.0006	0.0001	-	0.0001	0.0000	-	0.0000	0.0000	-	0.0000
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	-	1.2642	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

1. Conversion factor based on CalEEMod default value.
2. Emission factor based on CalEEMod default value.
3. Emissions account for dust control reduction from water application 3 times per day.

FD = Fugitive Dust

EXH = Exhaust

Sepulveda Transit Corridor Project - ALTERNATIVE 1

Dust Control Reduction 74%

BULLDOZING FUGITIVE DUST (ONSITE)

									Bulldozing EF (lb/hr)[1]						Daily Emissions (lb/day)[2,3]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Graders	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Concrete/Industrial Saws	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Plate Compactors	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Rough Terrain Forklifts	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Graders	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Concrete/Industrial Saws	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Plate Compactors	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Rough Terrain Forklifts	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	Bore/Drill Rigs	7	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	Cranes	7	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	Cranes	7	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	Rough Terrain Forklifts	14	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	Tractors/Loaders/Backhoes	7	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	Excavators	7	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	Pumps	7	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	Generator Sets	14	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	Cranes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	Cranes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	Rough Terrain Forklifts	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	Pumps	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	Generator Sets	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	Cranes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	Rough Terrain Forklifts	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	Generator Sets	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Graders	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Concrete/Industrial Saws	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Plate Compactors	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Rough Terrain Forklifts	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Graders	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Concrete/Industrial Saws	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Plate Compactors	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Rough Terrain Forklifts	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH)	6/1/2032	3/31/2035	5	739	10	Bore/Drill Rigs	3	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH)	6/1/2032	3/31/2035	5	739	10	Cranes	3	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH)	6/1/2032	3/31/2035	5	739	10	Cranes	3	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH)	6/1/2032	3/31/2035	5	739	10	Rough Terrain Forklifts	6	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH)	6/1/2032	3/31/2035	5	739	10	Tractors/Loaders/Backhoes	3	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH)	6/1/2032	3/31/2035	5	739	10	Excavators	3	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH)	6/1/2032	3/31/2035	5	739	10	Pumps	3	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH)	6/1/2032	3/31/2035	5	739	10	Generator Sets	6	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembly	4/1/2035	8/31/2035	5	110	10	Cranes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembly	4/1/2035	8/31/2035	5	110	10	Cranes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembly	4/1/2035	8/31/2035	5	110	10	Rough Terrain Forklifts	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembly	4/1/2035	8/31/2035	5	110	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembly	4/1/2035	8/31/2035	5	110	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembly	4/1/2035	8/31/2035	5	110	10	Pumps	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembly	4/1/2035	8/31/2035	5	110	10	Generator Sets	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	9/1/2035	10/31/2035	5	43	10	Cranes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	9/1/2035	10/31/2035	5	43	10	Rough Terrain Forklifts	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	9/1/2035	10/31/2035	5	43	10	Generator Sets	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 1

Dust Control Reduction 74%

BULLDOZING FUGITIVE DUST (ONSITE)

									Bulldozing EF (lb/hr)[1]						Daily Emissions (lb/day)[2,3]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Graders	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Concrete/Industrial Saws	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Plate Compactors	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Rough Terrain Forklifts	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Graders	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Concrete/Industrial Saws	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Plate Compactors	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Rough Terrain Forklifts	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	Bore/Drill Rigs	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	Cranes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	Cranes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	Rough Terrain Forklifts	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	Pumps	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	Generator Sets	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	Cranes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	Cranes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	Rough Terrain Forklifts	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	Pumps	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	Generator Sets	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	9/1/2033	10/31/2035	5	565	10	Cranes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	9/1/2033	10/31/2035	5	565	10	Rough Terrain Forklifts	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	9/1/2033	10/31/2035	5	565	10	Generator Sets	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Graders	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Concrete/Industrial Saws	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Plate Compactors	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Rough Terrain Forklifts	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Graders	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Concrete/Industrial Saws	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Plate Compactors	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Rough Terrain Forklifts	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	8/1/2032	5/31/2033	5	217	10	Bore/Drill Rigs	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	8/1/2032	5/31/2033	5	217	10	Cranes	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	8/1/2032	5/31/2033	5	217	10	Cranes	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	8/1/2032	5/31/2033	5	217	10	Rough Terrain Forklifts	4	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	8/1/2032	5/31/2033	5	217	10	Tractors/Loaders/Backhoes	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	8/1/2032	5/31/2033	5	217	10	Excavators	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	8/1/2032	5/31/2033	5	217	10	Pumps	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	8/1/2032	5/31/2033	5	217	10	Generator Sets	4	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	Cranes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	Cranes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	Rough Terrain Forklifts	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	Pumps	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	Generator Sets	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	Cranes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	Rough Terrain Forklifts	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	Generator Sets	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Graders	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Concrete/Industrial Saws	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Plate Compactors	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Rough Terrain Forklifts	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 1

Dust Control Reduction 74%

BULLDOZING FUGITIVE DUST (ONSITE)

									Bulldozing EF (lb/hr)[1]						Daily Emissions (lb/day)[2,3]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Graders	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Concrete/Industrial Saws	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Plate Compactors	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Rough Terrain Forklifts	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Bore/Drill Rigs	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Cranes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Cranes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Rough Terrain Forklifts	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Pumps	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Generator Sets	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	Cranes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	Cranes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	Rough Terrain Forklifts	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	Pumps	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	Generator Sets	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	Cranes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	Rough Terrain Forklifts	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	Generator Sets	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Graders	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Concrete/Industrial Saws	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Plate Compactors	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Rough Terrain Forklifts	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Graders	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Concrete/Industrial Saws	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Plate Compactors	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Rough Terrain Forklifts	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Bore/Drill Rigs	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Cranes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Cranes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Rough Terrain Forklifts	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Pumps	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Generator Sets	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	Cranes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	Cranes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	Rough Terrain Forklifts	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	Pumps	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	Generator Sets	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	Cranes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	Rough Terrain Forklifts	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	Generator Sets	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Graders	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Concrete/Industrial Saws	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Plate Compactors	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Rough Terrain Forklifts	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Graders	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Concrete/Industrial Saws	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Plate Compactors	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Rough Terrain Forklifts	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 1

Dust Control Reduction 74%

BULLDOZING FUGITIVE DUST (ONSITE)

									Bulldozing EF (lb/hr)[1]						Daily Emissions (lb/day)[2,3]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	Bore/Drill Rigs	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	Cranes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	Cranes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	Rough Terrain Forklifts	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	Pumps	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	Generator Sets	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	Cranes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	Cranes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	Rough Terrain Forklifts	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	Pumps	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	Generator Sets	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	Cranes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	Rough Terrain Forklifts	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	Generator Sets	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Graders	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Concrete/Industrial Saws	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Plate Compactors	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Rough Terrain Forklifts	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Graders	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Concrete/Industrial Saws	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Plate Compactors	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Rough Terrain Forklifts	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	Bore/Drill Rigs	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	Cranes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	Cranes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	Rough Terrain Forklifts	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	Pumps	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	Generator Sets	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	Cranes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	Cranes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	Rough Terrain Forklifts	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	Pumps	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	Generator Sets	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	Cranes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	Rough Terrain Forklifts	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	Generator Sets	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Graders	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Concrete/Industrial Saws	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Plate Compactors	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Rough Terrain Forklifts	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Graders	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Concrete/Industrial Saws	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Plate Compactors	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Rough Terrain Forklifts	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Bore/Drill Rigs	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Cranes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Cranes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Rough Terrain Forklifts	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Pumps	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Generator Sets	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 1

Dust Control Reduction 74%

BULLDOZING FUGITIVE DUST (ONSITE)

									Bulldozing EF (lb/hr)[1]						Daily Emissions (lb/day)[2,3]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	Cranes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	Cranes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	Rough Terrain Forklifts	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	Pumps	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	Generator Sets	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	Cranes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	Rough Terrain Forklifts	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	Generator Sets	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Graders	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Concrete/Industrial Saws	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Plate Compactors	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Rough Terrain Forklifts	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Graders	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Concrete/Industrial Saws	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Plate Compactors	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Rough Terrain Forklifts	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	Bore/Drill Rigs	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	Cranes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	Cranes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	Rough Terrain Forklifts	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	Pumps	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	Generator Sets	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	Cranes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	Cranes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	Rough Terrain Forklifts	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	Pumps	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	Generator Sets	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	11/1/2032	12/31/2034	5	565	10	Cranes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	11/1/2032	12/31/2034	5	565	10	Rough Terrain Forklifts	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	11/1/2032	12/31/2034	5	565	10	Generator Sets	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Graders	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Concrete/Industrial Saws	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Plate Compactors	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Rough Terrain Forklifts	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Graders	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Concrete/Industrial Saws	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Plate Compactors	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Rough Terrain Forklifts	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Bore/Drill Rigs	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Cranes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Cranes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Rough Terrain Forklifts	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Pumps	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Generator Sets	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	Cranes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	Cranes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	Rough Terrain Forklifts	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	Pumps	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	Generator Sets	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	Cranes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	Rough Terrain Forklifts	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	Generator Sets	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 1

Dust Control Reduction 74%

BULLDOZING FUGITIVE DUST (ONSITE)

									Bulldozing EF (lb/hr)[1]						Daily Emissions (lb/day)[2,3]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Graders	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Concrete/Industrial Saws	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Plate Compactors	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Rough Terrain Forklifts	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Graders	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Concrete/Industrial Saws	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Plate Compactors	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Rough Terrain Forklifts	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Bore/Drill Rigs	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Cranes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Cranes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Rough Terrain Forklifts	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Pumps	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Generator Sets	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	Cranes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	Cranes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	Rough Terrain Forklifts	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	Pumps	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	Generator Sets	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	Cranes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	Rough Terrain Forklifts	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	Generator Sets	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Graders	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Concrete/Industrial Saws	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Plate Compactors	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Rough Terrain Forklifts	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Rubber Tired Dozers	1	8.50	0.75	-	0.75	0.41	-	0.41	1.66	-	1.66	0.91	-	0.91	0.05	-	0.05	0.03	-	0.03
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Plate Compactors	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Graders	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Rubber Tired Dozers	1	8.50	0.75	-	0.75	0.41	-	0.41	1.66	-	1.66	0.91	-	0.91	0.04	-	0.04	0.02	-	0.02
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Plate Compactors	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Concrete Work	6/1/2033	7/31/2033	5	43	10	Plate Compactors	4	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Concrete Work	6/1/2033	7/31/2033	5	43	10	Rough Terrain Forklifts	4	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Concrete Work	6/1/2033	7/31/2033	5	43	10	Pumps	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	Graders	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	Concrete/Industrial Saws	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	Plate Compactors	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	Rough Terrain Forklifts	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	Graders	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	Tractors/Loaders/Backhoes	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	Rubber Tired Dozers	1	8.50	0.75	-	0.75	0.41	-	0.41	1.66	-	1.66	0.91	-	0.91	0.02	-	0.02	0.01	-	0.01
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	Plate Compactors	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	Pavers	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	Rollers	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Graders	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Concrete/Industrial Saws	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Plate Compactors	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Rough Terrain Forklifts	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Rubber Tired Dozers	1	8.50	0.75	-	0.75	0.41	-	0.41	1.66	-	1.66	0.91	-	0.91	0.05	-	0.05	0.03	-	0.03
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Plate Compactors	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 1

Dust Control Reduction 74%

BULLDOZING FUGITIVE DUST (ONSITE)

									Bulldozing EF (lb/hr)[1]						Daily Emissions (lb/day)[2,3]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Graders	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Rubber Tired Dozers	1	8.50	0.75	-	0.75	0.41	-	0.41	1.66	-	1.66	0.91	-	0.91	0.04	-	0.04	0.02	-	0.02
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Plate Compactors	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Concrete Work	6/1/2033	7/31/2033	5	43	10	Plate Compactors	4	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Concrete Work	6/1/2033	7/31/2033	5	43	10	Rough Terrain Forklifts	4	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Concrete Work	6/1/2033	7/31/2033	5	43	10	Pumps	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	Graders	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	Concrete/Industrial Saws	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	Plate Compactors	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	Rough Terrain Forklifts	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	Graders	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	Tractors/Loaders/Backhoes	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	Rubber Tired Dozers	1	8.50	0.75	-	0.75	0.41	-	0.41	1.66	-	1.66	0.91	-	0.91	0.02	-	0.02	0.01	-	0.01
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	Plate Compactors	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	Pavers	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	Rollers	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Graders	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Concrete/Industrial Saws	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Plate Compactors	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Rough Terrain Forklifts	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Rubber Tired Dozers	1	8.50	0.75	-	0.75	0.41	-	0.41	1.66	-	1.66	0.91	-	0.91	0.05	-	0.05	0.03	-	0.03
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Plate Compactors	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Graders	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Rubber Tired Dozers	1	8.50	0.75	-	0.75	0.41	-	0.41	1.66	-	1.66	0.91	-	0.91	0.04	-	0.04	0.02	-	0.02
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Plate Compactors	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	Plate Compactors	4	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	Rough Terrain Forklifts	4	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	Pumps	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	Graders	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	Concrete/Industrial Saws	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	Plate Compactors	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	Rough Terrain Forklifts	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	Graders	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	Tractors/Loaders/Backhoes	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	Rubber Tired Dozers	1	8.50	0.75	-	0.75	0.41	-	0.41	1.66	-	1.66	0.91	-	0.91	0.02	-	0.02	0.01	-	0.01
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	Plate Compactors	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	Pavers	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	Rollers	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Graders	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Concrete/Industrial Saws	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Plate Compactors	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Rough Terrain Forklifts	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Rubber Tired Dozers	1	8.50	0.75	-	0.75	0.41	-	0.41	1.66	-	1.66	0.91	-	0.91	0.05	-	0.05	0.03	-	0.03
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Plate Compactors	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Graders	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Rubber Tired Dozers	1	8.50	0.75	-	0.75	0.41	-	0.41	1.66	-	1.66	0.91	-	0.91	0.04	-	0.04	0.02	-	0.02
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Plate Compactors	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	Plate Compactors	4	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	Rough Terrain Forklifts	4	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	Pumps	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 1

Dust Control Reduction 74%

BULLDOZING FUGITIVE DUST (ONSITE)

									Bulldozing EF (lb/hr)[1]						Daily Emissions (lb/day)[2,3]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	Graders	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	Concrete/Industrial Saws	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	Plate Compactors	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	Rough Terrain Forklifts	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	Graders	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	Tractors/Loaders/Backhoes	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	Rubber Tired Dozers	1	8.50	0.75	-	0.75	0.41	-	0.41	1.66	-	1.66	0.91	-	0.91	0.02	-	0.02	0.01	-	0.01
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	Plate Compactors	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	Pavers	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	Rollers	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Graders	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Concrete/Industrial Saws	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Plate Compactors	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Rough Terrain Forklifts	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Rubber Tired Dozers	1	8.50	0.75	-	0.75	0.41	-	0.41	1.66	-	1.66	0.91	-	0.91	0.05	-	0.05	0.03	-	0.03
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Plate Compactors	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Graders	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Rubber Tired Dozers	1	8.50	0.75	-	0.75	0.41	-	0.41	1.66	-	1.66	0.91	-	0.91	0.04	-	0.04	0.02	-	0.02
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Plate Compactors	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	Plate Compactors	4	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	Rough Terrain Forklifts	4	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	Pumps	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	Graders	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	Concrete/Industrial Saws	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	Plate Compactors	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	Rough Terrain Forklifts	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	Graders	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	Tractors/Loaders/Backhoes	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	Rubber Tired Dozers	1	8.50	0.75	-	0.75	0.41	-	0.41	1.66	-	1.66	0.91	-	0.91	0.02	-	0.02	0.01	-	0.01
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	Plate Compactors	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	Pavers	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	Rollers	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	Graders	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	Concrete/Industrial Saws	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	Plate Compactors	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	Rough Terrain Forklifts	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Graders	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Concrete/Industrial Saws	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Plate Compactors	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Rough Terrain Forklifts	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	Graders	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	Tractors/Loaders/Backhoes	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	Rubber Tired Dozers	1	8.50	0.75	-	0.75	0.41	-	0.41	1.66	-	1.66	0.91	-	0.91	0.05	-	0.05	0.03	-	0.03
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	Scrapers	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	Plate Compactors	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	Cranes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	Cranes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	Rough Terrain Forklifts	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	Pumps	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	Aerial Lifts	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 1

Dust Control Reduction 74%

BULLDOZING FUGITIVE DUST (ONSITE)

									Bulldozing EF (lb/hr)[1]						Daily Emissions (lb/day)[2,3]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	Graders	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	Concrete/Industrial Saws	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	Plate Compactors	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	Rough Terrain Forklifts	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	Graders	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	Rubber Tired Dozers	1	8.50	0.75	-	0.75	0.41	-	0.41	1.66	-	1.66	0.91	-	0.91	0.04	-	0.04	0.02	-	0.02
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	Plate Compactors	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	Pavers	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	Rollers	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	Graders	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	Concrete/Industrial Saws	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	Plate Compactors	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	Rough Terrain Forklifts	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Graders	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Concrete/Industrial Saws	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Plate Compactors	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Rough Terrain Forklifts	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	Graders	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	Tractors/Loaders/Backhoes	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	Rubber Tired Dozers	1	8.50	0.75	-	0.75	0.41	-	0.41	1.66	-	1.66	0.91	-	0.91	0.05	-	0.05	0.03	-	0.03
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	Scrapers	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	Plate Compactors	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	Cranes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	Cranes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	Rough Terrain Forklifts	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	Pumps	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	Aerial Lifts	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	Graders	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	Concrete/Industrial Saws	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	Plate Compactors	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	Rough Terrain Forklifts	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	Graders	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	Rubber Tired Dozers	1	8.50	0.75	-	0.75	0.41	-	0.41	1.66	-	1.66	0.91	-	0.91	0.04	-	0.04	0.02	-	0.02
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	Plate Compactors	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	Pavers	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	Rollers	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Graders	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Concrete/Industrial Saws	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Plate Compactors	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Rough Terrain Forklifts	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Pavers	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Rollers	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Bore/Drill Rigs	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 1

Dust Control Reduction 74%

BULLDOZING FUGITIVE DUST (ONSITE)

									Bulldozing EF (lb/hr)[1]						Daily Emissions (lb/day)[2,3]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Graders	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Concrete/Industrial Saws	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Plate Compactors	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Rough Terrain Forklifts	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Pavers	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Rollers	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Bore/Drill Rigs	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Graders	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Concrete/Industrial Saws	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Plate Compactors	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Rough Terrain Forklifts	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Pavers	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Rollers	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Bore/Drill Rigs	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Graders	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Concrete/Industrial Saws	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Plate Compactors	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Rough Terrain Forklifts	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Pavers	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Rollers	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Bore/Drill Rigs	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	Graders	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	Concrete/Industrial Saws	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	Plate Compactors	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	Rough Terrain Forklifts	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	Excavators	4	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	Tractors/Loaders/Backhoes	4	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	Rubber Tired Dozers	4	8.50	0.75	-	0.75	0.41	-	0.41	6.65	-	6.65	3.66	-	3.66	0.73	-	0.73	0.40	-	0.40
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	Plate Compactors	4	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	Excavators	4	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	Graders	4	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	Tractors/Loaders/Backhoes	4	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	Rubber Tired Dozers	8	8.50	0.75	-	0.75	0.41	-	0.41	13.31	-	13.31	7.32	-	7.32	1.31	-	1.31	0.72	-	0.72
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	Scrapers	4	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	Plate Compactors	4	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	Plate Compactors	4	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	Rough Terrain Forklifts	4	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	Pavers	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	Graders	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	Concrete/Industrial Saws	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	Plate Compactors	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	Rough Terrain Forklifts	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	Graders	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	Tractors/Loaders/Backhoes	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	Rubber Tired Dozers	1	8.50	0.75	-	0.75	0.41	-	0.41	1.66	-	1.66	0.91	-	0.91	0.09	-	0.09	0.05	-	0.05
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	Scrapers	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	Plate Compactors	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	Cranes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	Cranes	4	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	Cranes	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	Rough Terrain Forklifts	4	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	Tractors/Loaders/Backhoes	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	Pumps	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	Aerial Lifts	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 1

Dust Control Reduction 74%

BULLDOZING FUGITIVE DUST (ONSITE)

									Bulldozing EF (lb/hr)[1]						Daily Emissions (lb/day)[2,3]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	Excavators	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	Graders	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	Tractors/Loaders/Backhoes	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	Concrete/Industrial Saws	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	Plate Compactors	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	Rough Terrain Forklifts	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	Graders	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	Tractors/Loaders/Backhoes	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	Rubber Tired Dozers	1	8.50	0.75	-	0.75	0.41	-	0.41	1.66	-	1.66	0.91	-	0.91	0.05	-	0.05	0.03	-	0.03
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	Plate Compactors	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	Pavers	1	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	Rollers	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	Cranes	4	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	Rough Terrain Forklifts	2	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	Pumps	4	8.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

1. Emission factor based on CalEEMod default value.
2. Emissions account for dust control reduction from water application 3 times per day.
3. Bulldozing emissions are only calculated for Rubber Tired Dozers which is consistent with CalEEMod methodology.

FD = Fugitive Dust

EXH = Exhaust

Sepulveda Transit Corridor Project - ALTERNATIVE 1

Dust Control Reduction 74%

GRADING FUGITIVE DUST (ONSITE)

													Grading EF (lb/VMT)[3]						Daily Emissions (lb/day)[4,5]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	Acres Graded per 8-hr day	Scaling Factor[1]	Acres per day	Daily VMT[2]	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Graders	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.08	-	0.08	0.01	-	0.01
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Concrete/Industrial Saws	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Plate Compactors	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Rough Terrain Forklifts	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Graders	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.05	-	0.05	0.01	-	0.01
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Concrete/Industrial Saws	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Plate Compactors	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Rough Terrain Forklifts	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	Bore/Drill Rigs	7	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	Cranes	7	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	Cranes	7	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	Rough Terrain Forklifts	14	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	Tractors/Loaders/Backhoes	7	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	Excavators	7	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	Pumps	7	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	Generator Sets	14	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	Cranes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	Cranes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	Rough Terrain Forklifts	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	Pumps	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	Generator Sets	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	Cranes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	Rough Terrain Forklifts	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	Generator Sets	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Graders	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.08	-	0.08	0.01	-	0.01
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Concrete/Industrial Saws	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Plate Compactors	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Rough Terrain Forklifts	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Graders	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.05	-	0.05	0.01	-	0.01
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Concrete/Industrial Saws	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Plate Compactors	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Rough Terrain Forklifts	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH	6/1/2032	3/31/2035	5	739	10	Bore/Drill Rigs	3	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH	6/1/2032	3/31/2035	5	739	10	Cranes	3	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH	6/1/2032	3/31/2035	5	739	10	Cranes	3	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH	6/1/2032	3/31/2035	5	739	10	Rough Terrain Forklifts	6	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH	6/1/2032	3/31/2035	5	739	10	Tractors/Loaders/Backhoes	3	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH	6/1/2032	3/31/2035	5	739	10	Excavators	3	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH	6/1/2032	3/31/2035	5	739	10	Pumps	3	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH	6/1/2032	3/31/2035	5	739	10	Generator Sets	6	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembl	4/1/2035	8/31/2035	5	110	10	Cranes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembl	4/1/2035	8/31/2035	5	110	10	Cranes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembl	4/1/2035	8/31/2035	5	110	10	Rough Terrain Forklifts	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembl	4/1/2035	8/31/2035	5	110	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembl	4/1/2035	8/31/2035	5	110	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembl	4/1/2035	8/31/2035	5	110	10	Pumps	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembl	4/1/2035	8/31/2035	5	110	10	Generator Sets	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	9/1/2035	10/31/2035	5	43	10	Cranes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	9/1/2035	10/31/2035	5	43	10	Rough Terrain Forklifts	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	9/1/2035	10/31/2035	5	43	10	Generator Sets	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Graders	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.08	-	0.08	0.01	-	0.01
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Concrete/Industrial Saws	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Plate Compactors	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Rough Terrain Forklifts	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Graders	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.05	-	0.05	0.01	-	0.01
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Concrete/Industrial Saws	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Plate Compactors	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Rough Terrain Forklifts	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 1

Dust Control Reduction 74%

GRADING FUGITIVE DUST (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	Acres Graded per 8-hr day	Scaling Factor[1]	Acres per day	Daily VMT[2]	Grading EF (lb/VMT)[3] PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	Daily Emissions (lb/day)[4,5] PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	Total Emissions (tons) PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	Bore/Drill Rigs	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	Cranes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	Cranes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	Rough Terrain Forklifts	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	Pumps	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	Generator Sets	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	Cranes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	Cranes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	Rough Terrain Forklifts	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	Pumps	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	Generator Sets	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	9/1/2033	10/31/2035	5	565	10	Cranes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	9/1/2033	10/31/2035	5	565	10	Rough Terrain Forklifts	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	9/1/2033	10/31/2035	5	565	10	Generator Sets	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Graders	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.08	-	0.08	0.01	-	0.01
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Concrete/Industrial Saws	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Plate Compactors	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Rough Terrain Forklifts	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Graders	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.05	-	0.05	0.01	-	0.01
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Concrete/Industrial Saws	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Plate Compactors	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Rough Terrain Forklifts	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	Bore/Drill Rigs	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	Cranes	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	Cranes	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	Rough Terrain Forklifts	4	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	Tractors/Loaders/Backhoes	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	Excavators	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	Pumps	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	Generator Sets	4	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	Cranes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	Cranes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	Rough Terrain Forklifts	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	Pumps	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	Generator Sets	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	Cranes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	Rough Terrain Forklifts	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	Generator Sets	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Graders	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.05	-	0.05	0.01	-	0.01
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Concrete/Industrial Saws	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Plate Compactors	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Rough Terrain Forklifts	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Graders	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.01	-	0.01	0.00	-	0.00
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Concrete/Industrial Saws	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Plate Compactors	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Rough Terrain Forklifts	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Bore/Drill Rigs	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Cranes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Cranes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Rough Terrain Forklifts	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Pumps	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Generator Sets	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	Cranes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	Cranes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	Rough Terrain Forklifts	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	Pumps	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	Generator Sets	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	Cranes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	Rough Terrain Forklifts	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	Generator Sets	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 1

Dust Control Reduction 74%

GRADING FUGITIVE DUST (ONSITE)

													Grading EF (lb/VMT)[3]						Daily Emissions (lb/day)[4,5]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	Acres Graded per 8-hr day	Scaling Factor[1]	Acres per day	Daily VMT[2]	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Graders	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.05	-	0.05	0.01	-	0.01
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Concrete/Industrial Saws	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Plate Compactors	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Rough Terrain Forklifts	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Graders	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.01	-	0.01	0.00	-	0.00
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Concrete/Industrial Saws	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Plate Compactors	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Rough Terrain Forklifts	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Bore/Drill Rigs	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Cranes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Cranes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Rough Terrain Forklifts	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Pumps	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Generator Sets	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	Cranes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	Cranes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	Rough Terrain Forklifts	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	Pumps	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	Generator Sets	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	Cranes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	Rough Terrain Forklifts	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	Generator Sets	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Graders	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.05	-	0.05	0.01	-	0.01
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Concrete/Industrial Saws	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Plate Compactors	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Rough Terrain Forklifts	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Graders	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.01	-	0.01	0.00	-	0.00
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Concrete/Industrial Saws	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Plate Compactors	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Rough Terrain Forklifts	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	Bore/Drill Rigs	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	Cranes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	Cranes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	Rough Terrain Forklifts	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	Pumps	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	Generator Sets	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	Cranes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	Cranes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	Rough Terrain Forklifts	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	Pumps	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	Generator Sets	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	Cranes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	Rough Terrain Forklifts	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	Generator Sets	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Graders	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.05	-	0.05	0.01	-	0.01
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Concrete/Industrial Saws	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Plate Compactors	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Rough Terrain Forklifts	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Graders	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.01	-	0.01	0.00	-	0.00
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Concrete/Industrial Saws	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Plate Compactors	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Rough Terrain Forklifts	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 1

Dust Control Reduction 74%

GRADING FUGITIVE DUST (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	Acres Graded per 8-hr day	Scaling Factor[1]	Acres per day	Daily VMT[2]	Grading EF (lb/VMT)[3] PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	Daily Emissions (lb/day)[4,5] PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	Total Emissions (tons) PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	Bore/Drill Rigs	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	Cranes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	Cranes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	Rough Terrain Forklifts	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	Pumps	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	Generator Sets	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	Cranes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	Cranes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	Rough Terrain Forklifts	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	Pumps	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	Generator Sets	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	Cranes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	Rough Terrain Forklifts	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	Generator Sets	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Graders	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.05	-	0.05	0.01	-	0.01
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Concrete/Industrial Saws	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Plate Compactors	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Rough Terrain Forklifts	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Graders	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.01	-	0.01	0.00	-	0.00
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Concrete/Industrial Saws	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Plate Compactors	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Rough Terrain Forklifts	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Bore/Drill Rigs	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Cranes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Cranes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Rough Terrain Forklifts	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Pumps	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Generator Sets	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	Cranes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	Cranes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	Rough Terrain Forklifts	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	Pumps	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	Generator Sets	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	Cranes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	Rough Terrain Forklifts	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	Generator Sets	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Graders	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.05	-	0.05	0.01	-	0.01
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Concrete/Industrial Saws	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Plate Compactors	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Rough Terrain Forklifts	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Graders	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.01	-	0.01	0.00	-	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Concrete/Industrial Saws	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Plate Compactors	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Rough Terrain Forklifts	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	Bore/Drill Rigs	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	Cranes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	Cranes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	Rough Terrain Forklifts	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	Pumps	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	Generator Sets	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	Cranes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	Cranes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	Rough Terrain Forklifts	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	Pumps	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	Generator Sets	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	11/1/2032	12/31/2034	5	565	10	Cranes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	11/1/2032	12/31/2034	5	565	10	Rough Terrain Forklifts	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	11/1/2032	12/31/2034	5	565	10	Generator Sets	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 1

Dust Control Reduction 74%

GRADING FUGITIVE DUST (ONSITE)

												Grading EF (lb/VMT)[3]						Daily Emissions (lb/day)[4,5]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	Acres Graded per 8-hr day	Scaling Factor[1]	Acres per day	Daily VMT[2]	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Graders	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.05	-	0.05	0.01	-	0.01
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Concrete/Industrial Saws	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Plate Compactors	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Rough Terrain Forklifts	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Graders	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.01	-	0.01	0.00	-	0.00
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Concrete/Industrial Saws	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Plate Compactors	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Rough Terrain Forklifts	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Bore/Drill Rigs	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Cranes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Cranes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Rough Terrain Forklifts	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Pumps	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Generator Sets	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	Cranes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	Cranes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	Rough Terrain Forklifts	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	Pumps	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	Generator Sets	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	Cranes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	Rough Terrain Forklifts	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	Generator Sets	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Graders	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.05	-	0.05	0.01	-	0.01
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Concrete/Industrial Saws	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Plate Compactors	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Rough Terrain Forklifts	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Graders	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.01	-	0.01	0.00	-	0.00
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Concrete/Industrial Saws	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Plate Compactors	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Rough Terrain Forklifts	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Bore/Drill Rigs	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Cranes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Cranes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Rough Terrain Forklifts	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Pumps	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Generator Sets	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	Cranes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	Cranes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	Rough Terrain Forklifts	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	Pumps	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	Generator Sets	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	Cranes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	Rough Terrain Forklifts	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	Generator Sets	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Graders	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.01	-	0.01	0.00	-	0.00
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Concrete/Industrial Saws	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Plate Compactors	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Rough Terrain Forklifts	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Rubber Tired Dozers	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.00	-	0.00	0.00	-	0.00
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Plate Compactors	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Graders	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.00	-	0.00	0.00	-	0.00
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Rubber Tired Dozers	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.00	-	0.00	0.00	-	0.00
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Plate Compactors	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Concrete Work	6/1/2033	7/31/2033	5	43	10	Plate Compactors	4	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Concrete Work	6/1/2033	7/31/2033	5	43	10	Rough Terrain Forklifts	4	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Concrete Work	6/1/2033	7/31/2033	5	43	10	Pumps	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 1

Dust Control Reduction 74%

GRADING FUGITIVE DUST (ONSITE)

												Grading EF (lb/VMT)[3]						Daily Emissions (lb/day)[4,5]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	Acres Graded per 8-hr day	Scaling Factor[1]	Acres per day	Daily VMT[2]	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	Graders	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.00	-	0.00	0.00	-	0.00
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	Concrete/Industrial Saws	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	Plate Compactors	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	Rough Terrain Forklifts	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	Graders	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.00	-	0.00	0.00	-	0.00
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	Tractors/Loaders/Backhoes	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	Rubber Tired Dozers	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.00	-	0.00	0.00	-	0.00
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	Plate Compactors	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	Pavers	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	Rollers	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Graders	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.01	-	0.01	0.00	-	0.00
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Concrete/Industrial Saws	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Plate Compactors	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Rough Terrain Forklifts	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Rubber Tired Dozers	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.00	-	0.00	0.00	-	0.00
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Plate Compactors	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Graders	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.00	-	0.00	0.00	-	0.00
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Rubber Tired Dozers	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.00	-	0.00	0.00	-	0.00
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Plate Compactors	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Concrete Work	6/1/2033	7/31/2033	5	43	10	Plate Compactors	4	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Concrete Work	6/1/2033	7/31/2033	5	43	10	Rough Terrain Forklifts	4	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Concrete Work	6/1/2033	7/31/2033	5	43	10	Pumps	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	Graders	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.00	-	0.00	0.00	-	0.00
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	Concrete/Industrial Saws	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	Plate Compactors	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	Rough Terrain Forklifts	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	Graders	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.00	-	0.00	0.00	-	0.00
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	Tractors/Loaders/Backhoes	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	Rubber Tired Dozers	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.00	-	0.00	0.00	-	0.00
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	Plate Compactors	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	Pavers	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	Rollers	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Graders	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.01	-	0.01	0.00	-	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Concrete/Industrial Saws	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Plate Compactors	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Rough Terrain Forklifts	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Rubber Tired Dozers	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.00	-	0.00	0.00	-	0.00
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Plate Compactors	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Graders	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.00	-	0.00	0.00	-	0.00
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Rubber Tired Dozers	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.00	-	0.00	0.00	-	0.00
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Plate Compactors	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	Plate Compactors	4	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	Rough Terrain Forklifts	4	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	Pumps	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	Graders	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.00	-	0.00	0.00	-	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	Concrete/Industrial Saws	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	Plate Compactors	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	Rough Terrain Forklifts	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	Graders	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.00	-	0.00	0.00	-	0.00
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	Tractors/Loaders/Backhoes	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	Rubber Tired Dozers	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.00	-	0.00	0.00	-	0.00
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	Plate Compactors	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	Pavers	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	Rollers	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Graders	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.01	-	0.01	0.00	-	0.00
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Concrete/Industrial Saws	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Plate Compactors	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Rough Terrain Forklifts	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 1

Dust Control Reduction 74%

GRADING FUGITIVE DUST (ONSITE)

												Grading EF (lb/VMT)[3]						Daily Emissions (lb/day)[4,5]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	Acres Graded per 8-hr day	Scaling Factor[1]	Acres per day	Daily VMT[2]	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Rubber Tired Dozers	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.00	-	0.00	0.00	-	0.00
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Plate Compactors	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Graders	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.00	-	0.00	0.00	-	0.00
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Rubber Tired Dozers	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.00	-	0.00	0.00	-	0.00
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Plate Compactors	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	Plate Compactors	4	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	Rough Terrain Forklifts	4	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	Pumps	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	Graders	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.00	-	0.00	0.00	-	0.00
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	Concrete/Industrial Saws	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	Plate Compactors	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	Rough Terrain Forklifts	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	Graders	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.00	-	0.00	0.00	-	0.00
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	Tractors/Loaders/Backhoes	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	Rubber Tired Dozers	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.00	-	0.00	0.00	-	0.00
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	Plate Compactors	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	Pavers	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	Rollers	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Graders	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.01	-	0.01	0.00	-	0.00
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Concrete/Industrial Saws	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Plate Compactors	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Rough Terrain Forklifts	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Rubber Tired Dozers	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.00	-	0.00	0.00	-	0.00
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Plate Compactors	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Graders	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.00	-	0.00	0.00	-	0.00
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Rubber Tired Dozers	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.00	-	0.00	0.00	-	0.00
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Plate Compactors	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	Plate Compactors	4	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	Rough Terrain Forklifts	4	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	Pumps	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	Graders	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.00	-	0.00	0.00	-	0.00
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	Concrete/Industrial Saws	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	Plate Compactors	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	Rough Terrain Forklifts	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	Graders	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.00	-	0.00	0.00	-	0.00
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	Tractors/Loaders/Backhoes	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	Rubber Tired Dozers	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.00	-	0.00	0.00	-	0.00
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	Plate Compactors	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	Pavers	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	Rollers	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	Graders	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.03	-	0.03	0.00	-	0.00
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	Concrete/Industrial Saws	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	Plate Compactors	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	Rough Terrain Forklifts	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Graders	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.00	-	0.00	0.00	-	0.00
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Concrete/Industrial Saws	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Plate Compactors	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Rough Terrain Forklifts	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	Graders	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.00	-	0.00	0.00	-	0.00
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	Tractors/Loaders/Backhoes	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	Rubber Tired Dozers	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.00	-	0.00	0.00	-	0.00
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	Scrapers	2	8.50	1.00	8	2.13	1.46	1.54	-	1.54	0.17	-	0.17	0.59	-	0.59	0.06	-	0.06	0.02	-	0.02	0.00	-	0.00
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	Plate Compactors	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	Cranes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	Cranes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	Rough Terrain Forklifts	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	Pumps	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	Aerial Lifts	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 1

Dust Control Reduction 74%

GRADING FUGITIVE DUST (ONSITE)

													Grading EF (lb/VMT)[3]						Daily Emissions (lb/day)[4,5]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	Acres Graded per 8-hr day	Scaling Factor[1]	Acres per day	Daily VMT[2]	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	Graders	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.01	-	0.01	0.00	-	0.00
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	Concrete/Industrial Saws	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	Plate Compactors	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	Rough Terrain Forklifts	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	Graders	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.00	-	0.00	0.00	-	0.00
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	Rubber Tired Dozers	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.00	-	0.00	0.00	-	0.00
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	Plate Compactors	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	Pavers	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	Rollers	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	Graders	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.03	-	0.03	0.00	-	0.00
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	Concrete/Industrial Saws	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	Plate Compactors	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	Rough Terrain Forklifts	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Graders	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.00	-	0.00	0.00	-	0.00
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Concrete/Industrial Saws	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Plate Compactors	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Rough Terrain Forklifts	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	Graders	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.00	-	0.00	0.00	-	0.00
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	Tractors/Loaders/Backhoes	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	Rubber Tired Dozers	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.00	-	0.00	0.00	-	0.00
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	Scrapers	2	8.50	1.00	8	2.13	1.46	1.54	-	1.54	0.17	-	0.17	0.59	-	0.59	0.06	-	0.06	0.02	-	0.02	0.00	-	0.00
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	Plate Compactors	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	Cranes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	Cranes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	Rough Terrain Forklifts	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	Pumps	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	Aerial Lifts	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	Graders	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.01	-	0.01	0.00	-	0.00
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	Concrete/Industrial Saws	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	Plate Compactors	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	Rough Terrain Forklifts	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	Graders	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.00	-	0.00	0.00	-	0.00
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	Rubber Tired Dozers	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.00	-	0.00	0.00	-	0.00
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	Plate Compactors	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	Pavers	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	Rollers	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Graders	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.01	-	0.01	0.00	-	0.00
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Concrete/Industrial Saws	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Plate Compactors	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Rough Terrain Forklifts	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Pavers	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Rollers	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Bore/Drill Rigs	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Graders	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.01	-	0.01	0.00	-	0.00
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Concrete/Industrial Saws	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Plate Compactors	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Rough Terrain Forklifts	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Pavers	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Rollers	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Bore/Drill Rigs	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 1

Dust Control Reduction 74%

GRADING FUGITIVE DUST (ONSITE)

												Grading EF (lb/VMT)[3]						Daily Emissions (lb/day)[4,5]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	Acres Graded per 8-hr day	Scaling Factor[1]	Acres per day	Daily VMT[2]	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Graders	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.01	-	0.01	0.00	-	0.00
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Concrete/Industrial Saws	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Plate Compactors	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Rough Terrain Forklifts	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Pavers	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Rollers	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Bore/Drill Rigs	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Graders	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.01	-	0.01	0.00	-	0.00
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Concrete/Industrial Saws	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Plate Compactors	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Rough Terrain Forklifts	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Pavers	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Rollers	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Bore/Drill Rigs	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	Graders	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.03	-	0.03	0.00	-	0.00
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	Concrete/Industrial Saws	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	Plate Compactors	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	Rough Terrain Forklifts	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	Excavators	4	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	Tractors/Loaders/Backhoes	4	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	Rubber Tired Dozers	4	8.50	0.50	8	2.13	1.46	1.54	-	1.54	0.17	-	0.17	0.59	-	0.59	0.06	-	0.06	0.06	-	0.06	0.01	-	0.01
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	Plate Compactors	4	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	Excavators	4	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	Graders	4	8.50	0.50	8	2.13	1.46	1.54	-	1.54	0.17	-	0.17	0.59	-	0.59	0.06	-	0.06	0.06	-	0.06	0.01	-	0.01
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	Tractors/Loaders/Backhoes	4	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	Rubber Tired Dozers	8	8.50	0.50	8	4.25	2.92	1.54	-	1.54	0.17	-	0.17	1.17	-	1.17	0.13	-	0.13	0.12	-	0.12	0.01	-	0.01
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	Scrapers	4	8.50	1.00	8	4.25	2.92	1.54	-	1.54	0.17	-	0.17	1.17	-	1.17	0.13	-	0.13	0.12	-	0.12	0.01	-	0.01
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	Plate Compactors	4	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	Plate Compactors	4	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	Rough Terrain Forklifts	4	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	Pavers	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	Graders	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.01	-	0.01	0.00	-	0.00
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	Concrete/Industrial Saws	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	Plate Compactors	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	Rough Terrain Forklifts	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	Graders	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.01	-	0.01	0.00	-	0.00
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	Tractors/Loaders/Backhoes	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	Rubber Tired Dozers	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.01	-	0.01	0.00	-	0.00
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	Scrapers	2	8.50	1.00	8	2.13	1.46	1.54	-	1.54	0.17	-	0.17	0.59	-	0.59	0.06	-	0.06	0.03	-	0.03	0.00	-	0.00
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	Plate Compactors	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	Cranes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	Cranes	4	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	Cranes	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	Rough Terrain Forklifts	4	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	Tractors/Loaders/Backhoes	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	Pumps	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	Aerial Lifts	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	Excavators	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	Graders	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.00	-	0.00	0.00	-	0.00
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	Tractors/Loaders/Backhoes	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	Concrete/Industrial Saws	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	Plate Compactors	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	Rough Terrain Forklifts	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	Graders	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.00	-	0.00	0.00	-	0.00
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	Tractors/Loaders/Backhoes	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	Rubber Tired Dozers	1	8.50	0.50	8	0.53	0.37	1.54	-	1.54	0.17	-	0.17	0.15	-	0.15	0.02	-	0.02	0.00	-	0.00	0.00	-	0.00
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	Plate Compactors	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	Pavers	1	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	Rollers	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 1

Dust Control Reduction 74%

GRADING FUGITIVE DUST (ONSITE)

												Grading EF (lb/VMT)[3]						Daily Emissions (lb/day)[4,5]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	Acres Graded per 8-hr day	Scaling Factor[1]	Acres per day	Daily VMT[2]	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	Cranes	4	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	Rough Terrain Forklifts	2	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	Pumps	4	8.50	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

1. CalEEMod provides the amount of acres that can be graded per 8-hours. The scaling factor is included in case equipment would operate more or less than 8 hours, thus, the amount of area to be graded would be adjusted.
2. Grading VMT based on methodology from CalEEMod which accounts for bladewidth of grading equipment and the amount of area grading equipment can complete in 8-hour day.
3. Emission factor based on CalEEMod default value.
4. Emissions account for dust control reduction from water application 3 times per day.
5. Grading emissions are only calculated for the following equipment types: Crawler Tractors, Graders, Rubber Tired Dozers, and Scrapers. This approach is consistent with CalEEMod methodology.

FD = Fugitive Dust

EXH = Exhaust

Sepulveda Transit Corridor Project - ALTERNATIVE 1

WORKER VEHICLES (OFFSITE)

											Running Emission Factor (g/mile)[1,2]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Workers per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Worker	10	20	18.5	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.17	0.00	0.01
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Worker	10	20	18.5	0.01	0.06	0.94	0.00	0.32	0.00	0.32	0.08	0.00	0.08	315.30	0.00	0.01
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Worker	88	176	18.5	0.01	0.05	0.83	0.00	0.32	0.00	0.32	0.08	0.00	0.08	310.19	0.00	0.01
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Worker	12	24	18.5	0.01	0.04	0.72	0.00	0.32	0.00	0.32	0.08	0.00	0.08	304.03	0.00	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Worker	8	16	18.5	0.01	0.04	0.69	0.00	0.32	0.00	0.32	0.08	0.00	0.08	302.42	0.00	0.00
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Worker	10	20	18.5	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.17	0.00	0.01
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Worker	10	20	18.5	0.01	0.06	0.94	0.00	0.32	0.00	0.32	0.08	0.00	0.08	315.30	0.00	0.01
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CII	6/1/2032	3/31/2035	5	739	10	2032	Worker	38	76	18.5	0.01	0.05	0.83	0.00	0.32	0.00	0.32	0.08	0.00	0.08	310.19	0.00	0.01
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assem	4/1/2035	8/31/2035	5	110	10	2035	Worker	12	24	18.5	0.01	0.04	0.72	0.00	0.32	0.00	0.32	0.08	0.00	0.08	304.03	0.00	0.00
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	9/1/2035	10/31/2035	5	43	10	2035	Worker	8	16	18.5	0.01	0.04	0.72	0.00	0.32	0.00	0.32	0.08	0.00	0.08	304.03	0.00	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Worker	10	20	18.5	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.17	0.00	0.01
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Worker	10	20	18.5	0.01	0.06	0.94	0.00	0.32	0.00	0.32	0.08	0.00	0.08	315.30	0.00	0.01
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	2032	Worker	14	28	18.5	0.01	0.05	0.83	0.00	0.32	0.00	0.32	0.08	0.00	0.08	310.19	0.00	0.01
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	2033	Worker	12	24	18.5	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.92	0.00	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	9/1/2033	10/31/2035	5	565	10	2033	Worker	8	16	18.5	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.92	0.00	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Worker	10	20	18.5	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.17	0.00	0.01
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Worker	10	20	18.5	0.01	0.06	0.94	0.00	0.32	0.00	0.32	0.08	0.00	0.08	315.30	0.00	0.01
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CII	8/1/2032	5/31/2033	5	217	10	2032	Worker	26	52	18.5	0.01	0.05	0.83	0.00	0.32	0.00	0.32	0.08	0.00	0.08	310.19	0.00	0.01
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assem	5/1/2033	10/31/2033	5	131	10	2033	Worker	12	24	18.5	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.92	0.00	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Worker	8	16	18.5	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.92	0.00	0.00
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Worker	10	20	18.5	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.17	0.00	0.01
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Worker	10	20	18.5	0.01	0.06	0.88	0.00	0.32	0.00	0.32	0.08	0.00	0.08	312.62	0.00	0.01
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Worker	14	28	18.5	0.01	0.05	0.83	0.00	0.32	0.00	0.32	0.08	0.00	0.08	310.19	0.00	0.01
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Worker	12	24	18.5	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.92	0.00	0.00
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Worker	8	16	18.5	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.92	0.00	0.00
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Worker	10	20	18.5	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.17	0.00	0.01
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Worker	10	20	18.5	0.01	0.06	0.88	0.00	0.32	0.00	0.32	0.08	0.00	0.08	312.62	0.00	0.01
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Worker	14	28	18.5	0.01	0.05	0.83	0.00	0.32	0.00	0.32	0.08	0.00	0.08	310.19	0.00	0.01
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Worker	12	24	18.5	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.92	0.00	0.00
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Worker	8	16	18.5	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.92	0.00	0.00
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Worker	10	20	18.5	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.17	0.00	0.01
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Worker	10	20	18.5	0.01	0.06	0.88	0.00	0.32	0.00	0.32	0.08	0.00	0.08	312.62	0.00	0.01
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Worker	14	28	18.5	0.01	0.05	0.83	0.00	0.32	0.00	0.32	0.08	0.00	0.08	310.19	0.00	0.01
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Worker	12	24	18.5	0.01	0.04	0.75	0.00	0.32	0.00	0.32	0.08	0.00	0.08	305.85	0.00	0.00
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Worker	8	16	18.5	0.01	0.04	0.75	0.00	0.32	0.00	0.32	0.08	0.00	0.08	305.85	0.00	0.00
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Worker	10	20	18.5	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.17	0.00	0.01
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Worker	10	20	18.5	0.01	0.06	0.88	0.00	0.32	0.00	0.32	0.08	0.00	0.08	312.62	0.00	0.01
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Worker	14	28	18.5	0.01	0.05	0.83	0.00	0.32	0.00	0.32	0.08	0.00	0.08	310.19	0.00	0.01
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Worker	12	24	18.5	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.92	0.00	0.00
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Worker	8	16	18.5	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.92	0.00	0.00
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Worker	10	20	18.5	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.17	0.00	0.01
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Worker	10	20	18.5	0.01	0.06	0.88	0.00	0.32	0.00	0.32	0.08	0.00	0.08	312.62	0.00	0.01
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Worker	14	28	18.5	0.01	0.05	0.83	0.00	0.32	0.00	0.32	0.08	0.00	0.08	310.19	0.00	0.01
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Worker	12	24	18.5	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.92	0.00	0.00
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Worker	8	16	18.5	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.92	0.00	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Worker	10	20	18.5	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.17	0.00	0.01
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Worker	10	20	18.5	0.01	0.06	0.88	0.00	0.32	0.00	0.32	0.08	0.00	0.08	312.62	0.00	0.01
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	2032	Worker	14	28	18.5	0.01	0.05	0.83	0.00	0.32	0.00	0.32	0.08	0.00	0.08	310.19	0.00	0.01
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	2032	Worker	12	24	18.5	0.01	0.05	0.83	0.00	0.32	0.00	0.32	0.08	0.00	0.08	310.19	0.00	0.01
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	11/1/2032	12/31/2034	5	565	10	2032	Worker	8	16	18.5	0.01	0.05	0.83	0.00	0.32	0.00	0.32	0.08	0.00	0.08	310.19	0.00	0.01
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Worker	10	20	18.5	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.17	0.00	0.01
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Worker	10	20	18.5	0.01	0.06	0.88	0.00	0.32	0.00	0.32	0.08	0.00	0.08	312.62	0.00	0.01
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Worker	14	28	18.5	0.01	0.05	0.83	0.00	0.32	0.00	0.32	0.08	0.00	0.08	310.19	0.00	0.01
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Worker	12	24	18.5	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.92	0.00	0.00
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Worker	8	16	18.5	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.92	0.00	0.00
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Worker	10	20	18.5	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.17	0.00	0.01
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Worker	10	20	18.5	0.01	0.06	0.88	0.00	0.32	0.00	0.32	0.08	0.00	0.08	312.62	0.00	0.01
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Worker	14	28	18.5	0.01	0.05	0.83	0.00	0.32	0.00	0.32	0.08	0.00	0.08	310.19	0.00	0.01
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Worker	12	24	18.5	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.92	0.00	0.00
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Worker	8	16	18.5	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.92	0.00	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 1

WORKER VEHICLES (OFFSITE)

											Non-Running Emission Factor (g/trip)[1,3]													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Workers per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Worker	10	20	18.5	1.19	0.27	3.24	0.00	-	0.00	0.00	-	0.00	0.00	78.32	0.07	0.03
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Worker	10	20	18.5	1.13	0.26	3.06	0.00	-	0.00	0.00	-	0.00	0.00	77.32	0.06	0.03
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Worker	88	176	18.5	1.02	0.24	2.73	0.00	-	0.00	0.00	-	0.00	0.00	75.47	0.06	0.03
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Worker	12	24	18.5	0.91	0.21	2.33	0.00	-	0.00	0.00	-	0.00	0.00	73.14	0.05	0.03
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Worker	8	16	18.5	0.89	0.21	2.23	0.00	-	0.00	0.00	-	0.00	0.00	72.48	0.05	0.03
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Worker	10	20	18.5	1.19	0.27	3.24	0.00	-	0.00	0.00	-	0.00	0.00	78.32	0.07	0.03
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Worker	10	20	18.5	1.13	0.26	3.06	0.00	-	0.00	0.00	-	0.00	0.00	77.32	0.06	0.03
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CII	6/1/2032	3/31/2035	5	739	10	2032	Worker	38	76	18.5	1.02	0.24	2.73	0.00	-	0.00	0.00	-	0.00	0.00	75.47	0.06	0.03
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assem	4/1/2035	8/31/2035	5	110	10	2035	Worker	12	24	18.5	0.91	0.21	2.33	0.00	-	0.00	0.00	-	0.00	0.00	73.14	0.05	0.03
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	9/1/2035	10/31/2035	5	43	10	2035	Worker	8	16	18.5	0.91	0.21	2.33	0.00	-	0.00	0.00	-	0.00	0.00	73.14	0.05	0.03
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Worker	10	20	18.5	1.19	0.27	3.24	0.00	-	0.00	0.00	-	0.00	0.00	78.32	0.07	0.03
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Worker	10	20	18.5	1.13	0.26	3.06	0.00	-	0.00	0.00	-	0.00	0.00	77.32	0.06	0.03
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	2032	Worker	14	28	18.5	1.02	0.24	2.73	0.00	-	0.00	0.00	-	0.00	0.00	75.47	0.06	0.03
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	2033	Worker	12	24	18.5	0.98	0.23	2.59	0.00	-	0.00	0.00	-	0.00	0.00	74.65	0.05	0.03
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	9/1/2033	10/31/2035	5	565	10	2033	Worker	8	16	18.5	0.98	0.23	2.59	0.00	-	0.00	0.00	-	0.00	0.00	74.65	0.05	0.03
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Worker	10	20	18.5	1.19	0.27	3.24	0.00	-	0.00	0.00	-	0.00	0.00	78.32	0.07	0.03
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Worker	10	20	18.5	1.13	0.26	3.06	0.00	-	0.00	0.00	-	0.00	0.00	77.32	0.06	0.03
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CII	8/1/2032	5/31/2033	5	217	10	2032	Worker	26	52	18.5	1.02	0.24	2.73	0.00	-	0.00	0.00	-	0.00	0.00	75.47	0.06	0.03
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assem	5/1/2033	10/31/2033	5	131	10	2033	Worker	12	24	18.5	0.98	0.23	2.59	0.00	-	0.00	0.00	-	0.00	0.00	74.65	0.05	0.03
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Worker	8	16	18.5	0.98	0.23	2.59	0.00	-	0.00	0.00	-	0.00	0.00	74.65	0.05	0.03
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Worker	10	20	18.5	1.19	0.27	3.24	0.00	-	0.00	0.00	-	0.00	0.00	78.32	0.07	0.03
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Worker	10	20	18.5	1.07	0.25	2.88	0.00	-	0.00	0.00	-	0.00	0.00	76.36	0.06	0.03
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Worker	14	28	18.5	1.02	0.24	2.73	0.00	-	0.00	0.00	-	0.00	0.00	75.47	0.06	0.03
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Worker	12	24	18.5	0.98	0.23	2.59	0.00	-	0.00	0.00	-	0.00	0.00	74.65	0.05	0.03
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Worker	8	16	18.5	0.98	0.23	2.59	0.00	-	0.00	0.00	-	0.00	0.00	74.65	0.05	0.03
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Worker	10	20	18.5	1.19	0.27	3.24	0.00	-	0.00	0.00	-	0.00	0.00	78.32	0.07	0.03
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Worker	10	20	18.5	1.07	0.25	2.88	0.00	-	0.00	0.00	-	0.00	0.00	76.36	0.06	0.03
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Worker	14	28	18.5	1.02	0.24	2.73	0.00	-	0.00	0.00	-	0.00	0.00	75.47	0.06	0.03
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Worker	12	24	18.5	0.98	0.23	2.59	0.00	-	0.00	0.00	-	0.00	0.00	74.65	0.05	0.03
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Worker	8	16	18.5	0.98	0.23	2.59	0.00	-	0.00	0.00	-	0.00	0.00	74.65	0.05	0.03
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Worker	10	20	18.5	1.19	0.27	3.24	0.00	-	0.00	0.00	-	0.00	0.00	78.32	0.07	0.03
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Worker	10	20	18.5	1.07	0.25	2.88	0.00	-	0.00	0.00	-	0.00	0.00	76.36	0.06	0.03
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Worker	14	28	18.5	1.02	0.24	2.73	0.00	-	0.00	0.00	-	0.00	0.00	75.47	0.06	0.03
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Worker	12	24	18.5	0.92	0.22	2.45	0.00	-	0.00	0.00	-	0.00	0.00	73.85	0.05	0.03
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Worker	8	16	18.5	0.92	0.22	2.45	0.00	-	0.00	0.00	-	0.00	0.00	73.85	0.05	0.03
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Worker	10	20	18.5	1.19	0.27	3.24	0.00	-	0.00	0.00	-	0.00	0.00	78.32	0.07	0.03
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Worker	10	20	18.5	1.07	0.25	2.88	0.00	-	0.00	0.00	-	0.00	0.00	76.36	0.06	0.03
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Worker	14	28	18.5	1.02	0.24	2.73	0.00	-	0.00	0.00	-	0.00	0.00	75.47	0.06	0.03
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Worker	12	24	18.5	0.98	0.23	2.59	0.00	-	0.00	0.00	-	0.00	0.00	74.65	0.05	0.03
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Worker	8	16	18.5	0.98	0.23	2.59	0.00	-	0.00	0.00	-	0.00	0.00	74.65	0.05	0.03
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Worker	10	20	18.5	1.19	0.27	3.24	0.00	-	0.00	0.00	-	0.00	0.00	78.32	0.07	0.03
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Worker	10	20	18.5	1.07	0.25	2.88	0.00	-	0.00	0.00	-	0.00	0.00	76.36	0.06	0.03
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Worker	14	28	18.5	1.02	0.24	2.73	0.00	-	0.00	0.00	-	0.00	0.00	75.47	0.06	0.03
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Worker	12	24	18.5	0.98	0.23	2.59	0.00	-	0.00	0.00	-	0.00	0.00	74.65	0.05	0.03
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Worker	8	16	18.5	0.98	0.23	2.59	0.00	-	0.00	0.00	-	0.00	0.00	74.65	0.05	0.03
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Worker	10	20	18.5	1.19	0.27	3.24	0.00	-	0.00	0.00	-	0.00	0.00	78.32	0.07	0.03
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Worker	10	20	18.5	1.07	0.25	2.88	0.00	-	0.00	0.00	-	0.00	0.00	76.36	0.06	0.03
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	2032	Worker	14	28	18.5	1.02	0.24	2.73	0.00	-	0.00	0.00	-	0.00	0.00	75.47	0.06	0.03
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	2032	Worker	12	24	18.5	1.02	0.24	2.73	0.00	-	0.00	0.00	-	0.00	0.00	75.47	0.06	0.03
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	11/1/2032	12/31/2034	5	565	10	2032	Worker	8	16	18.5	1.02	0.24	2.73	0.00	-	0.00	0.00	-	0.00	0.00	75.47	0.06	0.03
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Worker	10	20	18.5	1.19	0.27	3.24	0.00	-	0.00	0.00	-	0.00	0.00	78.32	0.07	0.03
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Worker	10	20	18.5	1.07	0.25	2.88	0.00	-	0.00	0.00	-	0.00	0.00	76.36	0.06	0.03
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Worker	14	28	18.5	1.02	0.24	2.73	0.00	-	0.00	0.00	-	0.00	0.00	75.47	0.06	0.03
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Worker	12	24	18.5	0.98	0.23	2.59	0.00	-	0.00	0.00	-	0.00	0.00	74.65	0.05	0.03
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Worker	8	16	18.5	0.98	0.23	2.59	0.00	-	0.00	0.00	-	0.00	0.00	74.65	0.05	0.03
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Worker	10	20	18.5	1.19	0.27	3.24	0.00	-	0.00	0.00	-	0.00	0.00	78.32	0.07	0.03
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Worker	10	20	18.5	1.07	0.25	2.88	0.00	-	0.00	0.00	-	0.00	0.00	76.36	0.06	0.03
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Worker	14	28	18.5	1.02	0.24	2.73	0.00	-	0.00	0.00	-	0.00	0.00	75.47	0.06	0.03
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Worker	12	24	18.5	0.98	0.23	2.59	0.00	-	0.00	0.00	-	0.00	0.00	74.65	0.05	0.03
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Worker	8	16	18.5	0.98	0.23	2.59	0.00	-	0.00	0.00	-	0.00	0.00	74.65	0.05	0.03

Sepulveda Transit Corridor Project - ALTERNATIVE 1

WORKER VEHICLES (OFFSITE)

											Daily Emissions (lb/day)												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Workers per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Worker	10	20	18.5	0.07	0.07	0.95	0.00	0.26	0.00	0.26	0.07	0.00	0.07	263.0	0.01	0.01
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Worker	10	20	18.5	0.06	0.06	0.90	0.00	0.26	0.00	0.26	0.07	0.00	0.07	260.6	0.01	0.01
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Worker	88	176	18.5	0.48	0.46	7.04	0.02	2.28	0.01	2.29	0.58	0.01	0.59	2255.9	0.04	0.05
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Worker	12	24	18.5	0.06	0.05	0.83	0.00	0.31	0.00	0.31	0.08	0.00	0.08	301.5	0.00	0.01
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Worker	8	16	18.5	0.04	0.03	0.53	0.00	0.21	0.00	0.21	0.05	0.00	0.05	199.9	0.00	0.00
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Worker	10	20	18.5	0.07	0.07	0.95	0.00	0.26	0.00	0.26	0.07	0.00	0.07	263.0	0.01	0.01
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Worker	10	20	18.5	0.06	0.06	0.90	0.00	0.26	0.00	0.26	0.07	0.00	0.07	260.6	0.01	0.01
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CII	6/1/2032	3/31/2035	5	739	10	2032	Worker	38	76	18.5	0.21	0.20	3.04	0.01	0.99	0.00	0.99	0.25	0.00	0.25	974.2	0.02	0.02
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assem	4/1/2035	8/31/2035	5	110	10	2035	Worker	12	24	18.5	0.06	0.05	0.83	0.00	0.31	0.00	0.31	0.08	0.00	0.08	301.5	0.00	0.01
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	9/1/2035	10/31/2035	5	43	10	2035	Worker	8	16	18.5	0.04	0.03	0.55	0.00	0.21	0.00	0.21	0.05	0.00	0.05	201.0	0.00	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Worker	10	20	18.5	0.07	0.07	0.95	0.00	0.26	0.00	0.26	0.07	0.00	0.07	263.0	0.01	0.01
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Worker	10	20	18.5	0.06	0.06	0.90	0.00	0.26	0.00	0.26	0.07	0.00	0.07	260.6	0.01	0.01
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	2032	Worker	14	28	18.5	0.08	0.07	1.12	0.00	0.36	0.00	0.36	0.09	0.00	0.09	358.9	0.01	0.01
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	2033	Worker	12	24	18.5	0.06	0.06	0.91	0.00	0.31	0.00	0.31	0.08	0.00	0.08	305.4	0.01	0.01
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	9/1/2033	10/31/2035	5	565	10	2033	Worker	8	16	18.5	0.04	0.04	0.61	0.00	0.21	0.00	0.21	0.05	0.00	0.05	203.6	0.00	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Worker	10	20	18.5	0.07	0.07	0.95	0.00	0.26	0.00	0.26	0.07	0.00	0.07	263.0	0.01	0.01
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Worker	10	20	18.5	0.06	0.06	0.90	0.00	0.26	0.00	0.26	0.07	0.00	0.07	260.6	0.01	0.01
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CII	8/1/2032	5/31/2033	5	217	10	2032	Worker	26	52	18.5	0.14	0.13	2.08	0.01	0.67	0.00	0.68	0.17	0.00	0.17	666.5	0.01	0.01
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assem	5/1/2033	10/31/2033	5	131	10	2033	Worker	12	24	18.5	0.06	0.06	0.91	0.00	0.31	0.00	0.31	0.08	0.00	0.08	305.4	0.01	0.01
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Worker	8	16	18.5	0.04	0.04	0.61	0.00	0.21	0.00	0.21	0.05	0.00	0.05	203.6	0.00	0.00
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Worker	10	20	18.5	0.07	0.07	0.95	0.00	0.26	0.00	0.26	0.07	0.00	0.07	263.0	0.01	0.01
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Worker	10	20	18.5	0.06	0.06	0.85	0.00	0.26	0.00	0.26	0.07	0.00	0.07	258.4	0.01	0.01
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Worker	14	28	18.5	0.08	0.07	1.12	0.00	0.36	0.00	0.36	0.09	0.00	0.09	358.9	0.01	0.01
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Worker	12	24	18.5	0.06	0.06	0.91	0.00	0.31	0.00	0.31	0.08	0.00	0.08	305.4	0.01	0.01
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Worker	8	16	18.5	0.04	0.04	0.61	0.00	0.21	0.00	0.21	0.05	0.00	0.05	203.6	0.00	0.00
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Worker	10	20	18.5	0.07	0.07	0.95	0.00	0.26	0.00	0.26	0.07	0.00	0.07	263.0	0.01	0.01
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Worker	10	20	18.5	0.06	0.06	0.85	0.00	0.26	0.00	0.26	0.07	0.00	0.07	258.4	0.01	0.01
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Worker	14	28	18.5	0.08	0.07	1.12	0.00	0.36	0.00	0.36	0.09	0.00	0.09	358.9	0.01	0.01
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Worker	12	24	18.5	0.06	0.06	0.91	0.00	0.31	0.00	0.31	0.08	0.00	0.08	305.4	0.01	0.01
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Worker	8	16	18.5	0.04	0.04	0.61	0.00	0.21	0.00	0.21	0.05	0.00	0.05	203.6	0.00	0.00
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Worker	10	20	18.5	0.07	0.07	0.95	0.00	0.26	0.00	0.26	0.07	0.00	0.07	263.0	0.01	0.01
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Worker	10	20	18.5	0.06	0.06	0.85	0.00	0.26	0.00	0.26	0.07	0.00	0.07	258.4	0.01	0.01
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Worker	14	28	18.5	0.08	0.07	1.12	0.00	0.36	0.00	0.36	0.09	0.00	0.09	358.9	0.01	0.01
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Worker	12	24	18.5	0.06	0.05	0.87	0.00	0.31	0.00	0.31	0.08	0.00	0.08	303.3	0.01	0.01
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Worker	8	16	18.5	0.04	0.03	0.58	0.00	0.21	0.00	0.21	0.05	0.00	0.05	202.2	0.00	0.00
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Worker	10	20	18.5	0.07	0.07	0.95	0.00	0.26	0.00	0.26	0.07	0.00	0.07	263.0	0.01	0.01
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Worker	10	20	18.5	0.06	0.06	0.85	0.00	0.26	0.00	0.26	0.07	0.00	0.07	258.4	0.01	0.01
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Worker	14	28	18.5	0.08	0.07	1.12	0.00	0.36	0.00	0.36	0.09	0.00	0.09	358.9	0.01	0.01
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Worker	12	24	18.5	0.06	0.06	0.91	0.00	0.31	0.00	0.31	0.08	0.00	0.08	305.4	0.01	0.01
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Worker	8	16	18.5	0.04	0.04	0.61	0.00	0.21	0.00	0.21	0.05	0.00	0.05	203.6	0.00	0.00
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Worker	10	20	18.5	0.07	0.07	0.95	0.00	0.26	0.00	0.26	0.07	0.00	0.07	263.0	0.01	0.01
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Worker	10	20	18.5	0.06	0.06	0.85	0.00	0.26	0.00	0.26	0.07	0.00	0.07	258.4	0.01	0.01
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Worker	14	28	18.5	0.08	0.07	1.12	0.00	0.36	0.00	0.36	0.09	0.00	0.09	358.9	0.01	0.01
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Worker	12	24	18.5	0.06	0.06	0.91	0.00	0.31	0.00	0.31	0.08	0.00	0.08	305.4	0.01	0.01
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Worker	8	16	18.5	0.04	0.04	0.61	0.00	0.21	0.00	0.21	0.05	0.00	0.05	203.6	0.00	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Worker	10	20	18.5	0.07	0.07	0.95	0.00	0.26	0.00	0.26	0.07	0.00	0.07	263.0	0.01	0.01
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Worker	10	20	18.5	0.06	0.06	0.85	0.00	0.26	0.00	0.26	0.07	0.00	0.07	258.4	0.01	0.01
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	2032	Worker	14	28	18.5	0.08	0.07	1.12	0.00	0.36	0.00	0.36	0.09	0.00	0.09	358.9	0.01	0.01
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	2032	Worker	12	24	18.5	0.07	0.06	0.96	0.00	0.31	0.00	0.31	0.08	0.00	0.08	307.6	0.01	0.01
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	11/1/2032	12/31/2034	5	565	10	2032	Worker	8	16	18.5	0.04	0.04	0.64	0.00	0.21	0.00	0.21	0.05	0.00	0.05	205.1	0.00	0.00
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Worker	10	20	18.5	0.07	0.07	0.95	0.00	0.26	0.00	0.26	0.07	0.00	0.07	263.0	0.01	0.01
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Worker	10	20	18.5	0.06	0.06	0.85	0.00	0.26	0.00	0.26	0.07	0.00	0.07	258.4	0.01	0.01
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Worker	14	28	18.5	0.08	0.07	1.12	0.00	0.36	0.00	0.36	0.09	0.00	0.09	358.9	0.01	0.01
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Worker	12	24	18.5	0.06	0.06	0.91	0.00	0.31	0.00	0.31	0.08	0.00	0.08	305.4	0.01	0.01
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Worker	8	16	18.5	0.04	0.04	0.61	0.00	0.21	0.00	0.21	0.05	0.00	0.05	203.6	0.00	0.00
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Worker	10	20	18.5	0.07	0.07	0.95	0.00	0.26	0.00	0.26	0.07	0.00	0.07	263.0	0.01	0.01
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Worker	10	20	18.5	0.06	0.06	0.85	0.00	0.26	0.00	0.26	0.07	0.00	0.07	258.4	0.01	0.01
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Worker	14	28	18.5	0.08	0.07	1.12	0.00	0.36	0.00	0.36	0.09	0.00	0.09	358.9	0.01	0.01
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Worker	12	24	18.5	0.06	0.06	0.91	0.00	0.31	0.00	0.31	0.08	0.00	0.08	305.4	0.01	0.01
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Worker	8	16	18.5	0.04	0.04	0.61	0.00	0.21	0.00	0.21	0.05	0.00	0.05	203.6	0.00	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 1

WORKER VEHICLES (OFFSITE)

											Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Workers per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Worker	10	20	18.5	0.03	0.04	0.50	0.00	0.14	0.00	0.14	0.03	0.00	0.03	124.7	0.00	0.00	125.6
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Worker	10	20	18.5	0.02	0.02	0.29	0.00	0.08	0.00	0.09	0.02	0.00	0.02	77.4	0.00	0.00	78.0
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Worker	88	176	18.5	0.20	0.19	2.98	0.01	0.97	0.00	0.97	0.24	0.00	0.25	866.7	0.02	0.02	872.7
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Worker	12	24	18.5	0.00	0.00	0.07	0.00	0.03	0.00	0.03	0.01	0.00	0.01	23.8	0.00	0.00	23.9
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Worker	8	16	18.5	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.0	0.00	0.00	4.0
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Worker	10	20	18.5	0.03	0.04	0.50	0.00	0.14	0.00	0.14	0.03	0.00	0.03	124.7	0.00	0.00	125.6
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Worker	10	20	18.5	0.02	0.02	0.29	0.00	0.08	0.00	0.09	0.02	0.00	0.02	77.4	0.00	0.00	78.0
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CII	6/1/2032	3/31/2035	5	739	10	2032	Worker	38	76	18.5	0.08	0.07	1.12	0.00	0.36	0.00	0.37	0.09	0.00	0.09	326.5	0.01	0.01	328.8
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assem	4/1/2035	8/31/2035	5	110	10	2035	Worker	12	24	18.5	0.00	0.00	0.05	0.00	0.02	0.00	0.02	0.00	0.00	0.00	15.0	0.00	0.00	15.1
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	9/1/2035	10/31/2035	5	43	10	2035	Worker	8	16	18.5	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.9	0.00	0.00	3.9
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Worker	10	20	18.5	0.03	0.04	0.50	0.00	0.14	0.00	0.14	0.03	0.00	0.03	124.7	0.00	0.00	125.6
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Worker	10	20	18.5	0.02	0.02	0.29	0.00	0.08	0.00	0.09	0.02	0.00	0.02	77.4	0.00	0.00	78.0
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	2032	Worker	14	28	18.5	0.01	0.01	0.13	0.00	0.04	0.00	0.04	0.01	0.00	0.01	38.9	0.00	0.00	39.2
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	2033	Worker	12	24	18.5	0.00	0.00	0.06	0.00	0.02	0.00	0.02	0.01	0.00	0.01	18.3	0.00	0.00	18.4
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	9/1/2033	10/31/2035	5	565	10	2033	Worker	8	16	18.5	0.01	0.01	0.17	0.00	0.06	0.00	0.06	0.01	0.00	0.02	52.2	0.00	0.00	52.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Worker	10	20	18.5	0.03	0.04	0.50	0.00	0.14	0.00	0.14	0.03	0.00	0.03	124.7	0.00	0.00	125.6
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Worker	10	20	18.5	0.02	0.02	0.29	0.00	0.08	0.00	0.09	0.02	0.00	0.02	77.4	0.00	0.00	78.0
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CII	8/1/2032	5/31/2033	5	217	10	2032	Worker	26	52	18.5	0.02	0.01	0.23	0.00	0.07	0.00	0.07	0.02	0.00	0.02	65.6	0.00	0.00	66.1
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assem	5/1/2033	10/31/2033	5	131	10	2033	Worker	12	24	18.5	0.00	0.00	0.06	0.00	0.02	0.00	0.02	0.01	0.00	0.01	18.1	0.00	0.00	18.3
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Worker	8	16	18.5	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.1	0.00	0.00	4.1
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Worker	10	20	18.5	0.02	0.02	0.31	0.00	0.08	0.00	0.08	0.02	0.00	0.02	77.7	0.00	0.00	78.3
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Worker	10	20	18.5	0.01	0.01	0.08	0.00	0.03	0.00	0.03	0.01	0.00	0.01	23.1	0.00	0.00	23.3
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Worker	14	28	18.5	0.01	0.01	0.13	0.00	0.04	0.00	0.04	0.01	0.00	0.01	38.7	0.00	0.00	39.0
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Worker	12	24	18.5	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.2	0.00	0.00	3.2
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Worker	8	16	18.5	0.01	0.01	0.15	0.00	0.05	0.00	0.05	0.01	0.00	0.01	46.1	0.00	0.00	46.4
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Worker	10	20	18.5	0.02	0.02	0.31	0.00	0.08	0.00	0.08	0.02	0.00	0.02	77.7	0.00	0.00	78.3
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Worker	10	20	18.5	0.01	0.01	0.08	0.00	0.03	0.00	0.03	0.01	0.00	0.01	23.1	0.00	0.00	23.3
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Worker	14	28	18.5	0.01	0.01	0.11	0.00	0.04	0.00	0.04	0.01	0.00	0.01	32.1	0.00	0.00	32.3
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Worker	12	24	18.5	0.00	0.00	0.03	0.00	0.01	0.00	0.01	0.00	0.00	0.00	8.9	0.00	0.00	8.9
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Worker	8	16	18.5	0.01	0.01	0.13	0.00	0.04	0.00	0.04	0.01	0.00	0.01	38.1	0.00	0.00	38.4
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Worker	10	20	18.5	0.02	0.02	0.31	0.00	0.08	0.00	0.08	0.02	0.00	0.02	77.7	0.00	0.00	78.3
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Worker	10	20	18.5	0.01	0.01	0.08	0.00	0.03	0.00	0.03	0.01	0.00	0.01	23.1	0.00	0.00	23.3
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Worker	14	28	18.5	0.02	0.02	0.28	0.00	0.09	0.00	0.09	0.02	0.00	0.02	81.7	0.00	0.00	82.3
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Worker	12	24	18.5	0.00	0.00	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	11.7	0.00	0.00	11.8
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Worker	8	16	18.5	0.01	0.01	0.11	0.00	0.04	0.00	0.04	0.01	0.00	0.01	33.9	0.00	0.00	34.1
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Worker	10	20	18.5	0.02	0.02	0.31	0.00	0.08	0.00	0.08	0.02	0.00	0.02	77.7	0.00	0.00	78.3
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Worker	10	20	18.5	0.01	0.01	0.08	0.00	0.03	0.00	0.03	0.01	0.00	0.01	23.1	0.00	0.00	23.3
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Worker	14	28	18.5	0.01	0.01	0.16	0.00	0.05	0.00	0.05	0.01	0.00	0.01	45.9	0.00	0.00	46.2
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Worker	12	24	18.5	0.00	0.00	0.05	0.00	0.02	0.00	0.02	0.00	0.00	0.00	15.2	0.00	0.00	15.3
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Worker	8	16	18.5	0.01	0.01	0.10	0.00	0.03	0.00	0.03	0.01	0.00	0.01	30.0	0.00	0.00	30.2
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Worker	10	20	18.5	0.02	0.02	0.31	0.00	0.08	0.00	0.08	0.02	0.00	0.02	77.7	0.00	0.00	78.3
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Worker	10	20	18.5	0.01	0.01	0.08	0.00	0.03	0.00	0.03	0.01	0.00	0.01	23.1	0.00	0.00	23.3
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Worker	14	28	18.5	0.01	0.01	0.11	0.00	0.04	0.00	0.04	0.01	0.00	0.01	32.1	0.00	0.00	32.3
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Worker	12	24	18.5	0.00	0.00	0.05	0.00	0.02	0.00	0.02	0.00	0.00	0.00	14.8	0.00	0.00	14.9
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Worker	8	16	18.5	0.01	0.00	0.08	0.00	0.03	0.00	0.03	0.01	0.00	0.01	24.1	0.00	0.00	24.3
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Worker	10	20	18.5	0.02	0.02	0.31	0.00	0.08	0.00	0.08	0.02	0.00	0.02	77.7	0.00	0.00	78.3
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Worker	10	20	18.5	0.01	0.01	0.08	0.00	0.03	0.00	0.03	0.01	0.00	0.01	23.1	0.00	0.00	23.3
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	2032	Worker	14	28	18.5	0.00	0.00	0.05	0.00	0.02	0.00	0.02	0.00	0.00	0.00	14.2	0.00	0.00	14.3
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	2032	Worker	12	24	18.5	0.00	0.00	0.03	0.00	0.01	0.00	0.01	0.00	0.00	0.00	9.1	0.00	0.00	9.1
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	11/1/2032	12/31/2034	5	565	10	2032	Worker	8	16	18.5	0.01	0.01	0.18	0.00	0.06	0.00	0.06	0.01	0.00	0.02	52.6	0.00	0.00	52.9
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Worker	10	20	18.5	0.02	0.02	0.31	0.00	0.08	0.00	0.08	0.02	0.00	0.02	77.7	0.00	0.00	78.3
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Worker	10	20	18.5	0.01	0.01	0.08	0.00	0.03	0.00	0.03	0.01	0.00	0.01	23.1	0.00	0.00	23.3
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Worker	14	28	18.5	0.01	0.01	0.11	0.00	0.04	0.00	0.04	0.01	0.00	0.01	32.1	0.00	0.00	32.3
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Worker	12	24	18.5	0.00	0.00	0.06	0.00	0.02	0.00	0.02	0.01	0.00	0.01	17.9	0.00	0.00	18.0
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Worker	8	16	18.5	0.01	0.01	0.10	0.00	0.03	0.00	0.03	0.01	0.00	0.01	30.1	0.00	0.00	30.3
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Worker	10	20	18.5	0.02	0.02	0.31	0.00	0.08	0.00	0.08	0.02	0.00	0.02	77.7	0.00	0.00	78.3
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Worker	10	20	18.5	0.01	0.01	0.08	0.00	0.03	0.00	0.03	0.01	0.00	0.01	23.1	0.00	0.00	23.3
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Worker	14	28	18.5	0.01	0.01	0.13	0.00	0.04	0.00	0.04	0.01	0.00	0.01	38.7	0.00	0.00	39.0
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Worker	12	24	18.5	0.00	0.00	0.03	0.00	0.01	0.00	0.01	0.00	0.00	0.00	9.1	0.00	0.00	9.2
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Worker	8	16	18.5	0.01	0.01	0.15	0.00	0.05	0.00	0.05	0.01	0.00	0.01	44.1	0.00	0.00	44.4

Sepulveda Transit Corridor Project - ALTERNATIVE 1

WORKER VEHICLES (OFFSITE)

											Running Emission Factor (g/mile)[1,2]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Workers per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Worker	10	20	18.5	0.01	0.05	0.83	0.00	0.32	0.00	0.32	0.08	0.00	0.08	310.19	0.00	0.01
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Worker	8	16	18.5	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.92	0.00	0.00
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Worker	8	16	18.5	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.92	0.00	0.00
TPSS 2-Wilshire Blvd-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Worker	18	36	18.5	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.92	0.00	0.00
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Worker	10	20	18.5	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.92	0.00	0.00
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	2033	Worker	14	28	18.5	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.92	0.00	0.00
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Worker	10	20	18.5	0.01	0.05	0.83	0.00	0.32	0.00	0.32	0.08	0.00	0.08	310.19	0.00	0.01
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Worker	8	16	18.5	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.92	0.00	0.00
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Worker	8	16	18.5	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.92	0.00	0.00
TPSS 3-Sunset Onramp-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Worker	18	36	18.5	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.92	0.00	0.00
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Worker	10	20	18.5	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.92	0.00	0.00
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	2033	Worker	14	28	18.5	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.92	0.00	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Worker	10	20	18.5	0.01	0.05	0.83	0.00	0.32	0.00	0.32	0.08	0.00	0.08	310.19	0.00	0.01
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Worker	8	16	18.5	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.92	0.00	0.00
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Worker	8	16	18.5	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.92	0.00	0.00
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Worker	18	36	18.5	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.92	0.00	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Worker	10	20	18.5	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.92	0.00	0.00
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Worker	14	28	18.5	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.92	0.00	0.00
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Worker	10	20	18.5	0.01	0.05	0.83	0.00	0.32	0.00	0.32	0.08	0.00	0.08	310.19	0.00	0.01
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Worker	8	16	18.5	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.92	0.00	0.00
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Worker	8	16	18.5	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.92	0.00	0.00
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Worker	18	36	18.5	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.92	0.00	0.00
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Worker	10	20	18.5	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.92	0.00	0.00
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Worker	14	28	18.5	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.92	0.00	0.00
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Worker	10	20	18.5	0.01	0.05	0.83	0.00	0.32	0.00	0.32	0.08	0.00	0.08	310.19	0.00	0.01
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Worker	8	16	18.5	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.92	0.00	0.00
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Worker	8	16	18.5	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.92	0.00	0.00
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Worker	18	36	18.5	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.92	0.00	0.00
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Worker	10	20	18.5	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.92	0.00	0.00
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Worker	14	28	18.5	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.92	0.00	0.00
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Worker	10	20	18.5	0.01	0.06	0.88	0.00	0.32	0.00	0.32	0.08	0.00	0.08	312.62	0.00	0.01
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Worker	10	20	18.5	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.92	0.00	0.00
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Worker	14	28	18.5	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.92	0.00	0.00
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Worker	12	24	18.5	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.92	0.00	0.00
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Worker	10	20	18.5	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.92	0.00	0.00
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Worker	12	24	18.5	0.01	0.04	0.75	0.00	0.32	0.00	0.32	0.08	0.00	0.08	305.85	0.00	0.00
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Worker	10	20	18.5	0.01	0.06	0.88	0.00	0.32	0.00	0.32	0.08	0.00	0.08	312.62	0.00	0.01
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Worker	10	20	18.5	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.92	0.00	0.00
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Worker	14	28	18.5	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.92	0.00	0.00
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	2033	Worker	12	24	18.5	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.92	0.00	0.00
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	2034	Worker	10	20	18.5	0.01	0.04	0.75	0.00	0.32	0.00	0.32	0.08	0.00	0.08	305.85	0.00	0.00
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	2035	Worker	12	24	18.5	0.01	0.04	0.72	0.00	0.32	0.00	0.32	0.08	0.00	0.08	304.03	0.00	0.00
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Worker	14	28	18.5	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.17	0.00	0.01
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Worker	14	28	18.5	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.17	0.00	0.01
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Worker	14	28	18.5	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.17	0.00	0.01
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Worker	14	28	18.5	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.17	0.00	0.01
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Worker	10	20	18.5	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.17	0.00	0.01
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Worker	26	52	18.5	0.01	0.06	0.94	0.00	0.32	0.00	0.32	0.08	0.00	0.08	315.30	0.00	0.01
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Worker	38	76	18.5	0.01	0.06	0.88	0.00	0.32	0.00	0.32	0.08	0.00	0.08	312.62	0.00	0.01
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Worker	18	36	18.5	0.01	0.05	0.83	0.00	0.32	0.00	0.32	0.08	0.00	0.08	310.19	0.00	0.01
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Worker	10	12	25	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.17	0.00	0.01
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Worker	14	12	25	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.17	0.00	0.01
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Worker	24	60	25	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.17	0.00	0.01
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Worker	10	12	25	0.01	0.06	0.94	0.00	0.32	0.00	0.32	0.08	0.00	0.08	315.30	0.00	0.01
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Worker	14	12	25	0.01	0.06	0.94	0.00	0.32	0.00	0.32	0.08	0.00	0.08	315.30	0.00	0.01
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Worker	14	12	25	0.01	0.06	0.94	0.00	0.32	0.00	0.32	0.08	0.00	0.08	315.30	0.00	0.01

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Fleet Mix:** Light-Duty Mix (25% LDA/50% LDT1/25% LDT2); **Fuel Type:** Gasoline

2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.

3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 1

WORKER VEHICLES (OFFSITE)

											Non-Running Emission Factor (g/trip)[1,3]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Workers per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Worker	10	20	18.5	1.02	0.24	2.73	0.00	-	0.00	0.00	-	0.00	0.00	75.47	0.06	0.03
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Worker	8	16	18.5	0.98	0.23	2.59	0.00	-	0.00	0.00	-	0.00	0.00	74.65	0.05	0.03
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Worker	8	16	18.5	0.98	0.23	2.59	0.00	-	0.00	0.00	-	0.00	0.00	74.65	0.05	0.03
TPSS 2-Wilshire Blvd-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Worker	18	36	18.5	0.98	0.23	2.59	0.00	-	0.00	0.00	-	0.00	0.00	74.65	0.05	0.03
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Worker	10	20	18.5	0.98	0.23	2.59	0.00	-	0.00	0.00	-	0.00	0.00	74.65	0.05	0.03
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	2033	Worker	14	28	18.5	0.98	0.23	2.59	0.00	-	0.00	0.00	-	0.00	0.00	74.65	0.05	0.03
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Worker	10	20	18.5	1.02	0.24	2.73	0.00	-	0.00	0.00	-	0.00	0.00	75.47	0.06	0.03
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Worker	8	16	18.5	0.98	0.23	2.59	0.00	-	0.00	0.00	-	0.00	0.00	74.65	0.05	0.03
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Worker	8	16	18.5	0.98	0.23	2.59	0.00	-	0.00	0.00	-	0.00	0.00	74.65	0.05	0.03
TPSS 3-Sunset Onramp-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Worker	18	36	18.5	0.98	0.23	2.59	0.00	-	0.00	0.00	-	0.00	0.00	74.65	0.05	0.03
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Worker	10	20	18.5	0.98	0.23	2.59	0.00	-	0.00	0.00	-	0.00	0.00	74.65	0.05	0.03
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	2033	Worker	14	28	18.5	0.98	0.23	2.59	0.00	-	0.00	0.00	-	0.00	0.00	74.65	0.05	0.03
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Worker	10	20	18.5	1.02	0.24	2.73	0.00	-	0.00	0.00	-	0.00	0.00	75.47	0.06	0.03
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Worker	8	16	18.5	0.98	0.23	2.59	0.00	-	0.00	0.00	-	0.00	0.00	74.65	0.05	0.03
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Worker	8	16	18.5	0.98	0.23	2.59	0.00	-	0.00	0.00	-	0.00	0.00	74.65	0.05	0.03
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Worker	18	36	18.5	0.98	0.23	2.59	0.00	-	0.00	0.00	-	0.00	0.00	74.65	0.05	0.03
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Worker	10	20	18.5	0.98	0.23	2.59	0.00	-	0.00	0.00	-	0.00	0.00	74.65	0.05	0.03
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Worker	14	28	18.5	0.98	0.23	2.59	0.00	-	0.00	0.00	-	0.00	0.00	74.65	0.05	0.03
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Worker	10	20	18.5	1.02	0.24	2.73	0.00	-	0.00	0.00	-	0.00	0.00	75.47	0.06	0.03
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Worker	8	16	18.5	0.98	0.23	2.59	0.00	-	0.00	0.00	-	0.00	0.00	74.65	0.05	0.03
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Worker	8	16	18.5	0.98	0.23	2.59	0.00	-	0.00	0.00	-	0.00	0.00	74.65	0.05	0.03
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Worker	18	36	18.5	0.98	0.23	2.59	0.00	-	0.00	0.00	-	0.00	0.00	74.65	0.05	0.03
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Worker	10	20	18.5	0.98	0.23	2.59	0.00	-	0.00	0.00	-	0.00	0.00	74.65	0.05	0.03
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Worker	14	28	18.5	0.98	0.23	2.59	0.00	-	0.00	0.00	-	0.00	0.00	74.65	0.05	0.03
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Worker	10	20	18.5	1.02	0.24	2.73	0.00	-	0.00	0.00	-	0.00	0.00	75.47	0.06	0.03
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Worker	8	16	18.5	0.98	0.23	2.59	0.00	-	0.00	0.00	-	0.00	0.00	74.65	0.05	0.03
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Worker	8	16	18.5	0.98	0.23	2.59	0.00	-	0.00	0.00	-	0.00	0.00	74.65	0.05	0.03
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Worker	18	36	18.5	0.98	0.23	2.59	0.00	-	0.00	0.00	-	0.00	0.00	74.65	0.05	0.03
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Worker	10	20	18.5	0.98	0.23	2.59	0.00	-	0.00	0.00	-	0.00	0.00	74.65	0.05	0.03
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Worker	14	28	18.5	0.98	0.23	2.59	0.00	-	0.00	0.00	-	0.00	0.00	74.65	0.05	0.03
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Worker	10	20	18.5	1.07	0.25	2.88	0.00	-	0.00	0.00	-	0.00	0.00	76.36	0.06	0.03
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Worker	10	20	18.5	0.98	0.23	2.59	0.00	-	0.00	0.00	-	0.00	0.00	74.65	0.05	0.03
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Worker	14	28	18.5	0.98	0.23	2.59	0.00	-	0.00	0.00	-	0.00	0.00	74.65	0.05	0.03
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Worker	12	24	18.5	0.98	0.23	2.59	0.00	-	0.00	0.00	-	0.00	0.00	74.65	0.05	0.03
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Worker	10	20	18.5	0.98	0.23	2.59	0.00	-	0.00	0.00	-	0.00	0.00	74.65	0.05	0.03
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Worker	12	24	18.5	0.92	0.22	2.45	0.00	-	0.00	0.00	-	0.00	0.00	73.85	0.05	0.03
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Worker	10	20	18.5	1.07	0.25	2.88	0.00	-	0.00	0.00	-	0.00	0.00	76.36	0.06	0.03
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Worker	10	20	18.5	0.98	0.23	2.59	0.00	-	0.00	0.00	-	0.00	0.00	74.65	0.05	0.03
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Worker	14	28	18.5	0.98	0.23	2.59	0.00	-	0.00	0.00	-	0.00	0.00	74.65	0.05	0.03
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	2033	Worker	12	24	18.5	0.98	0.23	2.59	0.00	-	0.00	0.00	-	0.00	0.00	74.65	0.05	0.03
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	2034	Worker	10	20	18.5	0.92	0.22	2.45	0.00	-	0.00	0.00	-	0.00	0.00	73.85	0.05	0.03
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	2035	Worker	12	24	18.5	0.91	0.21	2.33	0.00	-	0.00	0.00	-	0.00	0.00	73.14	0.05	0.03
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Worker	14	28	18.5	1.19	0.27	3.24	0.00	-	0.00	0.00	-	0.00	0.00	78.32	0.07	0.03
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Worker	14	28	18.5	1.19	0.27	3.24	0.00	-	0.00	0.00	-	0.00	0.00	78.32	0.07	0.03
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Worker	14	28	18.5	1.19	0.27	3.24	0.00	-	0.00	0.00	-	0.00	0.00	78.32	0.07	0.03
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Worker	14	28	18.5	1.19	0.27	3.24	0.00	-	0.00	0.00	-	0.00	0.00	78.32	0.07	0.03
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Worker	10	20	18.5	1.19	0.27	3.24	0.00	-	0.00	0.00	-	0.00	0.00	78.32	0.07	0.03
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Worker	26	52	18.5	1.13	0.26	3.06	0.00	-	0.00	0.00	-	0.00	0.00	77.32	0.06	0.03
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Worker	38	76	18.5	1.07	0.25	2.88	0.00	-	0.00	0.00	-	0.00	0.00	76.36	0.06	0.03
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Worker	18	36	18.5	1.02	0.24	2.73	0.00	-	0.00	0.00	-	0.00	0.00	75.47	0.06	0.03
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Worker	10	12	25	1.19	0.27	3.24	0.00	-	0.00	0.00	-	0.00	0.00	78.32	0.07	0.03
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Worker	14	12	25	1.19	0.27	3.24	0.00	-	0.00	0.00	-	0.00	0.00	78.32	0.07	0.03
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Worker	24	60	25	1.19	0.27	3.24	0.00	-	0.00	0.00	-	0.00	0.00	78.32	0.07	0.03
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Worker	10	12	25	1.13	0.26	3.06	0.00	-	0.00	0.00	-	0.00	0.00	77.32	0.06	0.03
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Worker	14	12	25	1.13	0.26	3.06	0.00	-	0.00	0.00	-	0.00	0.00	77.32	0.06	0.03
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Worker	14	12	25	1.13	0.26	3.06	0.00	-	0.00	0.00	-	0.00	0.00	77.32	0.06	0.03

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Fleet Mix:** Light-Duty Mix (25% LDA/50% LDT1/25% LDT2); **Fuel Type:** Gasoline

2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.

3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 1

WORKER VEHICLES (OFFSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Workers per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Daily Emissions (lb/day)													
											ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Worker	10	20	18.5	0.05	0.05	0.80	0.00	0.26	0.00	0.26	0.07	0.00	0.07	256.4	0.00	0.01
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Worker	8	16	18.5	0.04	0.04	0.61	0.00	0.21	0.00	0.21	0.05	0.00	0.05	203.6	0.00	0.00
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Worker	8	16	18.5	0.04	0.04	0.61	0.00	0.21	0.00	0.21	0.05	0.00	0.05	203.6	0.00	0.00
TPSS 2-Wilshire Blvd-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Worker	18	36	18.5	0.09	0.09	1.37	0.00	0.47	0.00	0.47	0.12	0.00	0.12	458.0	0.01	0.01
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Worker	10	20	18.5	0.05	0.05	0.76	0.00	0.26	0.00	0.26	0.07	0.00	0.07	254.5	0.00	0.01
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	2033	Worker	14	28	18.5	0.07	0.07	1.07	0.00	0.36	0.00	0.36	0.09	0.00	0.09	356.2	0.01	0.01
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Worker	10	20	18.5	0.05	0.05	0.80	0.00	0.26	0.00	0.26	0.07	0.00	0.07	256.4	0.00	0.01
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Worker	8	16	18.5	0.04	0.04	0.61	0.00	0.21	0.00	0.21	0.05	0.00	0.05	203.6	0.00	0.00
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Worker	8	16	18.5	0.04	0.04	0.61	0.00	0.21	0.00	0.21	0.05	0.00	0.05	203.6	0.00	0.00
TPSS 3-Sunset Onramp-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Worker	18	36	18.5	0.09	0.09	1.37	0.00	0.47	0.00	0.47	0.12	0.00	0.12	458.0	0.01	0.01
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Worker	10	20	18.5	0.05	0.05	0.76	0.00	0.26	0.00	0.26	0.07	0.00	0.07	254.5	0.00	0.01
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	2033	Worker	14	28	18.5	0.07	0.07	1.07	0.00	0.36	0.00	0.36	0.09	0.00	0.09	356.2	0.01	0.01
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Worker	10	20	18.5	0.05	0.05	0.80	0.00	0.26	0.00	0.26	0.07	0.00	0.07	256.4	0.00	0.01
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Worker	8	16	18.5	0.04	0.04	0.61	0.00	0.21	0.00	0.21	0.05	0.00	0.05	203.6	0.00	0.00
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Worker	8	16	18.5	0.04	0.04	0.61	0.00	0.21	0.00	0.21	0.05	0.00	0.05	203.6	0.00	0.00
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Worker	18	36	18.5	0.09	0.09	1.37	0.00	0.47	0.00	0.47	0.12	0.00	0.12	458.0	0.01	0.01
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Worker	10	20	18.5	0.05	0.05	0.76	0.00	0.26	0.00	0.26	0.07	0.00	0.07	254.5	0.00	0.01
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Worker	14	28	18.5	0.07	0.07	1.07	0.00	0.36	0.00	0.36	0.09	0.00	0.09	356.2	0.01	0.01
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Worker	10	20	18.5	0.05	0.05	0.80	0.00	0.26	0.00	0.26	0.07	0.00	0.07	256.4	0.00	0.01
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Worker	8	16	18.5	0.04	0.04	0.61	0.00	0.21	0.00	0.21	0.05	0.00	0.05	203.6	0.00	0.00
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Worker	8	16	18.5	0.04	0.04	0.61	0.00	0.21	0.00	0.21	0.05	0.00	0.05	203.6	0.00	0.00
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Worker	18	36	18.5	0.09	0.09	1.37	0.00	0.47	0.00	0.47	0.12	0.00	0.12	458.0	0.01	0.01
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Worker	10	20	18.5	0.05	0.05	0.76	0.00	0.26	0.00	0.26	0.07	0.00	0.07	254.5	0.00	0.01
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Worker	14	28	18.5	0.07	0.07	1.07	0.00	0.36	0.00	0.36	0.09	0.00	0.09	356.2	0.01	0.01
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Worker	10	20	18.5	0.05	0.05	0.80	0.00	0.26	0.00	0.26	0.07	0.00	0.07	256.4	0.00	0.01
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Worker	8	16	18.5	0.04	0.04	0.61	0.00	0.21	0.00	0.21	0.05	0.00	0.05	203.6	0.00	0.00
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Worker	8	16	18.5	0.04	0.04	0.61	0.00	0.21	0.00	0.21	0.05	0.00	0.05	203.6	0.00	0.00
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Worker	18	36	18.5	0.09	0.09	1.37	0.00	0.47	0.00	0.47	0.12	0.00	0.12	458.0	0.01	0.01
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Worker	10	20	18.5	0.05	0.05	0.76	0.00	0.26	0.00	0.26	0.07	0.00	0.07	254.5	0.00	0.01
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Worker	14	28	18.5	0.07	0.07	1.07	0.00	0.36	0.00	0.36	0.09	0.00	0.09	356.2	0.01	0.01
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Worker	10	20	18.5	0.06	0.06	0.85	0.00	0.26	0.00	0.26	0.07	0.00	0.07	258.4	0.01	0.01
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Worker	10	20	18.5	0.05	0.05	0.76	0.00	0.26	0.00	0.26	0.07	0.00	0.07	254.5	0.00	0.01
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Worker	14	28	18.5	0.07	0.07	1.07	0.00	0.36	0.00	0.36	0.09	0.00	0.09	356.2	0.01	0.01
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Worker	12	24	18.5	0.06	0.06	0.91	0.00	0.31	0.00	0.31	0.08	0.00	0.08	305.4	0.01	0.01
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Worker	10	20	18.5	0.05	0.05	0.76	0.00	0.26	0.00	0.26	0.07	0.00	0.07	254.5	0.00	0.01
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Worker	12	24	18.5	0.06	0.05	0.87	0.00	0.31	0.00	0.31	0.08	0.00	0.08	303.3	0.01	0.01
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Worker	10	20	18.5	0.06	0.06	0.85	0.00	0.26	0.00	0.26	0.07	0.00	0.07	258.4	0.01	0.01
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Worker	10	20	18.5	0.05	0.05	0.76	0.00	0.26	0.00	0.26	0.07	0.00	0.07	254.5	0.00	0.01
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Worker	14	28	18.5	0.07	0.07	1.07	0.00	0.36	0.00	0.36	0.09	0.00	0.09	356.2	0.01	0.01
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	2033	Worker	12	24	18.5	0.06	0.06	0.91	0.00	0.31	0.00	0.31	0.08	0.00	0.08	305.4	0.01	0.01
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	2034	Worker	10	20	18.5	0.05	0.04	0.72	0.00	0.26	0.00	0.26	0.07	0.00	0.07	252.7	0.00	0.01
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	2035	Worker	12	24	18.5	0.06	0.05	0.83	0.00	0.31	0.00	0.31	0.08	0.00	0.08	301.5	0.00	0.01
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Worker	14	28	18.5	0.09	0.10	1.33	0.00	0.36	0.00	0.36	0.09	0.00	0.09	368.2	0.01	0.01
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Worker	14	28	18.5	0.09	0.10	1.33	0.00	0.36	0.00	0.36	0.09	0.00	0.09	368.2	0.01	0.01
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Worker	14	28	18.5	0.09	0.10	1.33	0.00	0.36	0.00	0.36	0.09	0.00	0.09	368.2	0.01	0.01
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Worker	14	28	18.5	0.09	0.10	1.33	0.00	0.36	0.00	0.36	0.09	0.00	0.09	368.2	0.01	0.01
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Worker	10	20	18.5	0.07	0.07	0.95	0.00	0.26	0.00	0.26	0.07	0.00	0.07	263.0	0.01	0.01
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Worker	26	52	18.5	0.16	0.16	2.33	0.01	0.67	0.00	0.68	0.17	0.00	0.17	677.6	0.01	0.02
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Worker	38	76	18.5	0.22	0.22	3.21	0.01	0.99	0.00	0.99	0.25	0.00	0.25	981.8	0.02	0.02
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Worker	18	36	18.5	0.10	0.09	1.44	0.00	0.47	0.00	0.47	0.12	0.00	0.12	461.4	0.01	0.01
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Worker	10	12	25	0.04	0.05	0.74	0.00	0.21	0.00	0.21	0.05	0.00	0.05	212.5	0.00	0.00
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Worker	14	12	25	0.04	0.05	0.74	0.00	0.21	0.00	0.21	0.05	0.00	0.05	212.5	0.00	0.00
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Worker	24	60	25	0.21	0.27	3.71	0.01	1.05	0.01	1.06	0.27	0.00	0.27	1062.5	0.02	0.02
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Worker	10	12	25	0.04	0.05	0.70	0.00	0.21	0.00	0.21	0.05	0.00	0.05	210.6	0.00	0.00
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Worker	14	12	25	0.04	0.05	0.70	0.00	0.21	0.00	0.21	0.05	0.00	0.05	210.6	0.00	0.00
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Worker	14	12	25	0.04	0.05	0.70	0.00	0.21	0.00	0.21	0.05	0.00	0.05	210.6	0.00	0.00

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Fleet Mix:** Light-Duty Mix (25% LDA/50% LDT1/25% LDT2); **Fuel Type:** Gasoline
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 1

WORKER VEHICLES (OFFSITE)

											Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Workers per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Worker	10	20	18.5	0.00	0.00	0.07	0.00	0.02	0.00	0.02	0.01	0.00	0.01	20.3	0.00	0.00	20.5
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Worker	8	16	18.5	0.00	0.00	0.02	0.00	0.01	0.00	0.01	0.00	0.00	0.00	5.9	0.00	0.00	5.9
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Worker	8	16	18.5	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.0	0.00	0.00	4.0
TPSS 2-Wilshire Blvd-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Worker	18	36	18.5	0.00	0.00	0.03	0.00	0.01	0.00	0.01	0.00	0.00	0.00	8.9	0.00	0.00	9.0
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Worker	10	20	18.5	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.7	0.00	0.00	2.7
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	2033	Worker	14	28	18.5	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.6	0.00	0.00	3.6
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Worker	10	20	18.5	0.00	0.00	0.07	0.00	0.02	0.00	0.02	0.01	0.00	0.01	20.3	0.00	0.00	20.5
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Worker	8	16	18.5	0.00	0.00	0.02	0.00	0.01	0.00	0.01	0.00	0.00	0.00	5.9	0.00	0.00	5.9
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Worker	8	16	18.5	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.0	0.00	0.00	4.0
TPSS 3-Sunset Onramp-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Worker	18	36	18.5	0.00	0.00	0.03	0.00	0.01	0.00	0.01	0.00	0.00	0.00	8.9	0.00	0.00	9.0
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Worker	10	20	18.5	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.7	0.00	0.00	2.7
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	2033	Worker	14	28	18.5	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.6	0.00	0.00	3.6
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Worker	10	20	18.5	0.00	0.00	0.07	0.00	0.02	0.00	0.02	0.01	0.00	0.01	20.3	0.00	0.00	20.5
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Worker	8	16	18.5	0.00	0.00	0.02	0.00	0.01	0.00	0.01	0.00	0.00	0.00	5.9	0.00	0.00	5.9
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Worker	8	16	18.5	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.0	0.00	0.00	4.0
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Worker	18	36	18.5	0.00	0.00	0.03	0.00	0.01	0.00	0.01	0.00	0.00	0.00	8.9	0.00	0.00	9.0
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Worker	10	20	18.5	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.7	0.00	0.00	2.7
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Worker	14	28	18.5	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.6	0.00	0.00	3.6
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Worker	10	20	18.5	0.00	0.00	0.07	0.00	0.02	0.00	0.02	0.01	0.00	0.01	20.3	0.00	0.00	20.5
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Worker	8	16	18.5	0.00	0.00	0.02	0.00	0.01	0.00	0.01	0.00	0.00	0.00	5.9	0.00	0.00	5.9
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Worker	8	16	18.5	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.0	0.00	0.00	4.0
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Worker	18	36	18.5	0.00	0.00	0.03	0.00	0.01	0.00	0.01	0.00	0.00	0.00	8.9	0.00	0.00	9.0
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Worker	10	20	18.5	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.7	0.00	0.00	2.7
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Worker	14	28	18.5	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.6	0.00	0.00	3.6
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Worker	10	20	18.5	0.00	0.00	0.07	0.00	0.02	0.00	0.02	0.01	0.00	0.01	20.3	0.00	0.00	20.5
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Worker	8	16	18.5	0.00	0.00	0.02	0.00	0.01	0.00	0.01	0.00	0.00	0.00	5.9	0.00	0.00	5.9
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Worker	8	16	18.5	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.0	0.00	0.00	4.0
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Worker	18	36	18.5	0.00	0.00	0.03	0.00	0.01	0.00	0.01	0.00	0.00	0.00	8.9	0.00	0.00	9.0
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Worker	10	20	18.5	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.7	0.00	0.00	2.7
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Worker	14	28	18.5	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.6	0.00	0.00	3.6
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Worker	10	20	18.5	0.01	0.01	0.17	0.00	0.05	0.00	0.05	0.01	0.00	0.01	46.2	0.00	0.00	46.5
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Worker	10	20	18.5	0.00	0.00	0.02	0.00	0.01	0.00	0.01	0.00	0.00	0.00	7.4	0.00	0.00	7.4
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Worker	14	28	18.5	0.00	0.00	0.03	0.00	0.01	0.00	0.01	0.00	0.00	0.00	10.5	0.00	0.00	10.6
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Worker	12	24	18.5	0.00	0.00	0.02	0.00	0.01	0.00	0.01	0.00	0.00	0.00	6.1	0.00	0.00	6.1
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Worker	10	20	18.5	0.00	0.00	0.05	0.00	0.02	0.00	0.02	0.00	0.00	0.00	14.9	0.00	0.00	15.0
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Worker	12	24	18.5	0.00	0.00	0.02	0.00	0.01	0.00	0.01	0.00	0.00	0.00	5.9	0.00	0.00	6.0
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Worker	10	20	18.5	0.01	0.01	0.17	0.00	0.05	0.00	0.05	0.01	0.00	0.01	46.2	0.00	0.00	46.5
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Worker	10	20	18.5	0.00	0.00	0.02	0.00	0.01	0.00	0.01	0.00	0.00	0.00	7.4	0.00	0.00	7.4
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Worker	14	28	18.5	0.00	0.00	0.03	0.00	0.01	0.00	0.01	0.00	0.00	0.00	10.5	0.00	0.00	10.6
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	2033	Worker	12	24	18.5	0.01	0.01	0.14	0.00	0.05	0.00	0.05	0.01	0.00	0.01	42.2	0.00	0.00	42.5
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	2034	Worker	10	20	18.5	0.00	0.00	0.05	0.00	0.02	0.00	0.02	0.00	0.00	0.01	17.3	0.00	0.00	17.4
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	2035	Worker	12	24	18.5	0.00	0.00	0.02	0.00	0.01	0.00	0.01	0.00	0.00	0.00	6.0	0.00	0.00	6.1
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Worker	14	28	18.5	0.01	0.01	0.07	0.00	0.02	0.00	0.02	0.01	0.00	0.01	18.4	0.00	0.00	18.5
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Worker	14	28	18.5	0.01	0.01	0.10	0.00	0.03	0.00	0.03	0.01	0.00	0.01	25.7	0.00	0.00	25.9
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Worker	14	28	18.5	0.01	0.01	0.07	0.00	0.02	0.00	0.02	0.01	0.00	0.01	18.4	0.00	0.00	18.5
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Worker	14	28	18.5	0.01	0.01	0.10	0.00	0.03	0.00	0.03	0.01	0.00	0.01	25.7	0.00	0.00	25.9
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Worker	10	20	18.5	0.01	0.01	0.19	0.00	0.05	0.00	0.05	0.01	0.00	0.01	46.5	0.00	0.00	46.9
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Worker	26	52	18.5	0.02	0.02	0.25	0.00	0.07	0.00	0.07	0.02	0.00	0.02	67.0	0.00	0.00	67.5
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Worker	38	76	18.5	0.02	0.02	0.32	0.00	0.10	0.00	0.10	0.02	0.00	0.02	87.7	0.00	0.00	88.4
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Worker	18	36	18.5	0.01	0.01	0.17	0.00	0.06	0.00	0.06	0.01	0.00	0.01	50.2	0.00	0.00	50.6
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Worker	10	12	25	0.00	0.00	0.05	0.00	0.01	0.00	0.01	0.00	0.00	0.00	12.5	0.00	0.00	12.6
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Worker	14	12	25	0.00	0.00	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	10.6	0.00	0.00	10.7
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Worker	24	60	25	0.01	0.01	0.20	0.00	0.06	0.00	0.06	0.01	0.00	0.01	51.6	0.00	0.00	52.0
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Worker	10	12	25	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.1	0.00	0.00	4.1
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Worker	14	12	25	0.00	0.00	0.02	0.00	0.01	0.00	0.01	0.00	0.00	0.00	6.3	0.00	0.00	6.3
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Worker	14	12	25	0.02	0.02	0.27	0.00	0.08	0.00	0.08	0.02	0.00	0.02	74.7	0.00	0.00	75.2

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Fleet Mix:** Light-Duty Mix (25% LDA/50% LDT1/25% LDT2); **Fuel Type:** Gasoline
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 1

SOIL/MATERIAL HAUL TRUCKS (ONSITE)

											Running Emission Factor (g/mile)[1,2,4]													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	6	6	0.1	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Haul	16	16	0.1	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Haul	-	-	0.1	0.03	4.51	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1831.9	0.00	0.29
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Haul	-	-	0.1	0.03	4.48	0.31	0.02	184.11	0.01	184.12	18.39	0.01	18.40	1810.2	0.00	0.29
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	2	2	0.1	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH)	6/1/2032	3/31/2035	5	739	10	2032	Haul	4	4	0.1	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembly	4/1/2035	8/31/2035	5	110	10	2035	Haul	-	-	0.1	0.03	4.51	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1831.9	0.00	0.29
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	9/1/2035	10/31/2035	5	43	10	2035	Haul	-	-	0.1	0.03	4.51	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1831.9	0.00	0.29
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	2	2	0.1	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	2032	Haul	4	4	0.1	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	9/1/2033	10/31/2035	5	565	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	2	2	0.1	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	8/1/2032	5/31/2033	5	217	10	2032	Haul	10	10	0.1	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	2	0.1	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Haul	2	2	0.1	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	2	0.1	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	2	2	0.1	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	2	0.1	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Haul	2	2	0.1	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Haul	-	-	0.1	0.03	4.53	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1854.7	0.00	0.29
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Haul	-	-	0.1	0.03	4.53	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1854.7	0.00	0.29
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	2	0.1	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Haul	2	2	0.1	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	2	0.1	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	2	2	0.1	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	2	0.1	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	2032	Haul	2	2	0.1	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	11/1/2032	12/31/2034	5	565	10	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	2	0.1	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	2	2	0.1	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	2	0.1	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Haul	2	2	0.1	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30

Sepulveda Transit Corridor Project - ALTERNATIVE 1

SOIL/MATERIAL HAUL TRUCKS (ONSITE)

											Non-Running Emission Factor (g/trip)[1,3]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	6	6	0.1	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.73	0.02	0.12
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Haul	16	16	0.1	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Haul	-	-	0.1	0.37	6.33	5.50	0.01	-	0.00	0.00	-	0.00	0.00	731.19	0.02	0.12
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Haul	-	-	0.1	0.37	6.31	5.54	0.01	-	0.00	0.00	-	0.00	0.00	730.10	0.02	0.12
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	2	2	0.1	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.73	0.02	0.12
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH)	6/1/2032	3/31/2035	5	739	10	2032	Haul	4	4	0.1	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembly	4/1/2035	8/31/2035	5	110	10	2035	Haul	-	-	0.1	0.37	6.33	5.50	0.01	-	0.00	0.00	-	0.00	0.00	731.19	0.02	0.12
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	9/1/2035	10/31/2035	5	43	10	2035	Haul	-	-	0.1	0.37	6.33	5.50	0.01	-	0.00	0.00	-	0.00	0.00	731.19	0.02	0.12
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	2	2	0.1	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.73	0.02	0.12
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	2032	Haul	4	4	0.1	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	9/1/2033	10/31/2035	5	565	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	2	2	0.1	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.73	0.02	0.12
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	8/1/2032	5/31/2033	5	217	10	2032	Haul	10	10	0.1	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	2	0.1	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.36	0.02	0.12
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Haul	2	2	0.1	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	2	0.1	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.36	0.02	0.12
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	2	2	0.1	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	2	0.1	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.36	0.02	0.12
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Haul	2	2	0.1	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Haul	-	-	0.1	0.37	6.35	5.48	0.01	-	0.00	0.00	-	0.00	0.00	734.19	0.02	0.12
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Haul	-	-	0.1	0.37	6.35	5.48	0.01	-	0.00	0.00	-	0.00	0.00	734.19	0.02	0.12
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	2	0.1	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.36	0.02	0.12
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Haul	2	2	0.1	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	2	0.1	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.36	0.02	0.12
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	2	2	0.1	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	2	0.1	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.36	0.02	0.12
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	2032	Haul	2	2	0.1	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	11/1/2032	12/31/2034	5	565	10	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	2	0.1	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.36	0.02	0.12
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	2	2	0.1	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	2	0.1	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.36	0.02	0.12
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Haul	2	2	0.1	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12

Sepulveda Transit Corridor Project - ALTERNATIVE 1

SOIL/MATERIAL HAUL TRUCKS (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	Daily Emissions (lb/day)													
											ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	6	6	0.1	0.00	0.09	0.07	0.00	0.24	0.00	0.24	0.02	0.00	0.02	12.6	0.00	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Haul	16	16	0.1	0.01	0.24	0.19	0.00	0.65	0.00	0.65	0.06	0.00	0.06	33.0	0.00	0.01
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.2	0.00	0.00
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH)	6/1/2032	3/31/2035	5	739	10	2032	Haul	4	4	0.1	0.00	0.06	0.05	0.00	0.16	0.00	0.16	0.02	0.00	0.02	8.2	0.00	0.00
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembly	4/1/2035	8/31/2035	5	110	10	2035	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	9/1/2035	10/31/2035	5	43	10	2035	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.2	0.00	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	2032	Haul	4	4	0.1	0.00	0.06	0.05	0.00	0.16	0.00	0.16	0.02	0.00	0.02	8.2	0.00	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	9/1/2033	10/31/2035	5	565	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.2	0.00	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	8/1/2032	5/31/2033	5	217	10	2032	Haul	10	10	0.1	0.01	0.15	0.12	0.00	0.41	0.00	0.41	0.04	0.00	0.04	20.6	0.00	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.2	0.00	0.00
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.1	0.00	0.00
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.2	0.00	0.00
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.1	0.00	0.00
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.2	0.00	0.00
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.1	0.00	0.00
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.2	0.00	0.00
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.1	0.00	0.00
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.2	0.00	0.00
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.1	0.00	0.00
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.2	0.00	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	2032	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.1	0.00	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	11/1/2032	12/31/2034	5	565	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.2	0.00	0.00
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.1	0.00	0.00
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.2	0.00	0.00
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.1	0.00	0.00
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 1

SOIL/MATERIAL HAUL TRUCKS (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	Total Emissions (tons) ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	Total Emissions (metric tons) CO_2	CH_4	N_2O	CO_2e
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	6	6	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	3.8	0.00	0.00	3.9
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Haul	16	16	0.1	0.01	0.10	0.08	0.00	0.28	0.00	0.28	0.03	0.00	0.03	12.7	0.00	0.00	13.3
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	2	2	0.1	0.00	0.01	0.01	0.00	0.03	0.00	0.03	0.00	0.00	0.00	1.3	0.00	0.00	1.3
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH)	6/1/2032	3/31/2035	5	739	10	2032	Haul	4	4	0.1	0.00	0.02	0.02	0.00	0.06	0.00	0.06	0.01	0.00	0.01	2.8	0.00	0.00	2.9
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembly	4/1/2035	8/31/2035	5	110	10	2035	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	9/1/2035	10/31/2035	5	43	10	2035	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	2	2	0.1	0.00	0.01	0.01	0.00	0.03	0.00	0.03	0.00	0.00	0.00	1.3	0.00	0.00	1.3
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	2032	Haul	4	4	0.1	0.00	0.01	0.01	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.9	0.00	0.00	0.9
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	9/1/2033	10/31/2035	5	565	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	2	2	0.1	0.00	0.01	0.01	0.00	0.03	0.00	0.03	0.00	0.00	0.00	1.3	0.00	0.00	1.3
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	8/1/2032	5/31/2033	5	217	10	2032	Haul	10	10	0.1	0.00	0.02	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	2.0	0.00	0.00	2.1
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.5
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Haul	2	2	0.1	0.00	0.01	0.01	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.9	0.00	0.00	1.0
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.5	0.00	0.00	0.6
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	2032	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	11/1/2032	12/31/2034	5	565	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.5
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 1

SOIL/MATERIAL HAUL TRUCKS (ONSITE)

											Running Emission Factor (g/mile)[1,2,4]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	6	6	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 2-Wilshire Blvd-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	4	4	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 3-Sunset Onramp-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	6	6	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	6	6	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	14	14	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Haul	-	-	0.1	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	2	2	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Haul	22	22	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Haul	-	-	0.1	0.03	4.53	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1854.7	0.00	0.29
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Haul	-	-	0.1	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	4	4	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Haul	12	12	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	2034	Haul	-	-	0.1	0.03	4.53	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1854.7	0.00	0.29
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	2035	Haul	-	-	0.1	0.03	4.51	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1831.9	0.00	0.29
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Haul	2	2	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Haul	2	2	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Haul	2	2	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Haul	2	2	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Haul	46	46	0.1	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Haul	36	36	0.1	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Haul	34	34	0.1	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Haul	2	2	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Haul	-	-	0.1	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Haul	-	-	0.1	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Haul	2	2	0.1	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** 100% HHDT; **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 1

SOIL/MATERIAL HAUL TRUCKS (ONSITE)

											Non-Running Emission Factor (g/trip)[1,3]													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	6	6	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 2-Wilshire Blvd-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	4	4	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 3-Sunset Onramp-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	6	6	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	6	6	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	14	14	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Haul	-	-	0.1	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.36	0.02	0.12
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	2	2	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Haul	22	22	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Haul	-	-	0.1	0.37	6.35	5.48	0.01	-	0.00	0.00	-	0.00	0.00	734.19	0.02	0.12
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Haul	-	-	0.1	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.36	0.02	0.12
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	4	4	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Haul	12	12	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	2034	Haul	-	-	0.1	0.37	6.35	5.48	0.01	-	0.00	0.00	-	0.00	0.00	734.19	0.02	0.12
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	2035	Haul	-	-	0.1	0.37	6.33	5.50	0.01	-	0.00	0.00	-	0.00	0.00	731.19	0.02	0.12
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Haul	2	2	0.1	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Haul	2	2	0.1	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Haul	2	2	0.1	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Haul	2	2	0.1	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Haul	46	46	0.1	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.73	0.02	0.12
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Haul	36	36	0.1	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.36	0.02	0.12
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Haul	34	34	0.1	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Haul	2	2	0.1	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Haul	-	-	0.1	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.73	0.02	0.12
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Haul	-	-	0.1	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.73	0.02	0.12
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Haul	2	2	0.1	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.73	0.02	0.12

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** 100% HHDT; **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 1

SOIL/MATERIAL HAUL TRUCKS (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	Daily Emissions (lb/day)												
											ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	6	6	0.1	0.00	0.09	0.07	0.00	0.24	0.00	0.24	0.02	0.00	0.02	12.3	0.00	0.00
TPSS 2-Wilshire Blvd-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	4	4	0.1	0.00	0.06	0.05	0.00	0.16	0.00	0.16	0.02	0.00	0.02	8.2	0.00	0.00
TPSS 3-Sunset Onramp-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	6	6	0.1	0.00	0.09	0.07	0.00	0.24	0.00	0.24	0.02	0.00	0.02	12.3	0.00	0.00
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	6	6	0.1	0.00	0.09	0.07	0.00	0.24	0.00	0.24	0.02	0.00	0.02	12.3	0.00	0.00
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	14	14	0.1	0.01	0.21	0.17	0.00	0.57	0.00	0.57	0.06	0.00	0.06	28.6	0.00	0.00
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.1	0.00	0.00
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Haul	22	22	0.1	0.02	0.33	0.27	0.00	0.89	0.00	0.89	0.09	0.00	0.09	44.9	0.00	0.01
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	4	4	0.1	0.00	0.06	0.05	0.00	0.16	0.00	0.16	0.02	0.00	0.02	8.2	0.00	0.00
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Haul	12	12	0.1	0.01	0.18	0.15	0.00	0.49	0.00	0.49	0.05	0.00	0.05	24.5	0.00	0.00
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	2035	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.3	0.00	0.00
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.3	0.00	0.00
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.3	0.00	0.00
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.3	0.00	0.00
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Haul	46	46	0.1	0.04	0.71	0.55	0.00	1.87	0.00	1.87	0.19	0.00	0.19	96.9	0.00	0.02
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Haul	36	36	0.1	0.03	0.55	0.43	0.00	1.46	0.00	1.46	0.15	0.00	0.15	74.9	0.00	0.01
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Haul	34	34	0.1	0.03	0.52	0.41	0.00	1.38	0.00	1.38	0.14	0.00	0.14	70.0	0.00	0.01
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.3	0.00	0.00
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.2	0.00	0.00

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** 100% HHDT; **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 1

SOIL/MATERIAL HAUL TRUCKS (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	Total Emissions (tons) ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	Total Emissions (metric tons) CO_2	CH_4	N_2O	CO_2e
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	6	6	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.3
TPSS 2-Wilshire Blvd-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	4	4	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.2	0.00	0.00	0.2
TPSS 3-Sunset Onramp-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	6	6	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.3
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	6	6	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.3
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	14	14	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.6	0.00	0.00	0.6
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Haul	22	22	0.1	0.00	0.01	0.01	0.00	0.03	0.00	0.03	0.00	0.00	0.00	1.3	0.00	0.00	1.4
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	4	4	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.2
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Haul	12	12	0.1	0.00	0.01	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.7	0.00	0.00	0.8
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	2035	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Haul	46	46	0.1	0.00	0.08	0.06	0.00	0.20	0.00	0.20	0.02	0.00	0.02	9.6	0.00	0.00	10.0
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Haul	36	36	0.1	0.00	0.05	0.04	0.00	0.14	0.00	0.14	0.01	0.00	0.01	6.7	0.00	0.00	7.0
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Haul	34	34	0.1	0.00	0.06	0.05	0.00	0.17	0.00	0.17	0.02	0.00	0.02	7.6	0.00	0.00	8.0
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Haul	2	2	0.1	0.00	0.01	0.01	0.00	0.03	0.00	0.03	0.00	0.00	0.00	1.5	0.00	0.00	1.6

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** 100% HHDT; **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 1

SOIL/MATERIAL HAUL TRUCKS (OFFSITE)

											Running Emission Factor (g/mile)[1,2]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	25	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	6	12	25	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Haul	16	32	25	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Haul	-	-	25	0.01	1.25	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1342.3	0.00	0.21
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Haul	-	-	25	0.01	1.24	0.04	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1327.5	0.00	0.21
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	25	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	2	4	25	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CI	6/1/2032	3/31/2035	5	739	10	2032	Haul	4	8	25	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assen	4/1/2035	8/31/2035	5	110	10	2035	Haul	-	-	25	0.01	1.25	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1342.3	0.00	0.21
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	9/1/2035	10/31/2035	5	43	10	2035	Haul	-	-	25	0.01	1.25	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1342.3	0.00	0.21
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	25	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	2	4	25	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	2032	Haul	4	8	25	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	2033	Haul	-	-	25	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	9/1/2033	10/31/2035	5	565	10	2033	Haul	-	-	25	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	25	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	2	4	25	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CI	8/1/2032	5/31/2033	5	217	10	2032	Haul	10	20	25	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assen	5/1/2033	10/31/2033	5	131	10	2033	Haul	-	-	25	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Haul	-	-	25	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	25	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	4	25	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Haul	2	4	25	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Haul	-	-	25	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Haul	-	-	25	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	25	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	4	25	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	2	4	25	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	25	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Haul	-	-	25	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	25	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	4	25	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Haul	2	4	25	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Haul	-	-	25	0.01	1.27	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1356.7	0.00	0.21
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Haul	-	-	25	0.01	1.27	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1356.7	0.00	0.21
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	25	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	4	25	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Haul	2	4	25	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Haul	-	-	25	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Haul	-	-	25	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	25	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	4	25	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	2	4	25	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Haul	-	-	25	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Haul	-	-	25	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	25	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	4	25	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	2032	Haul	2	4	25	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	2032	Haul	-	-	25	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	11/1/2032	12/31/2034	5	565	10	2032	Haul	-	-	25	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	25	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	4	25	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	2	4	25	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Haul	-	-	25	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Haul	-	-	25	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	25	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	4	25	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Haul	2	4	25	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Haul	-	-	25	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Haul	-	-	25	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22

Sepulveda Transit Corridor Project - ALTERNATIVE 1

SOIL/MATERIAL HAUL TRUCKS (OFFSITE)

											Non-Running Emission Factor (g/trip)[1,3]													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	25	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	6	12	25	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.73	0.02	0.12
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Haul	16	32	25	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Haul	-	-	25	0.37	6.33	5.50	0.01	-	0.00	0.00	-	0.00	0.00	731.19	0.02	0.12
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Haul	-	-	25	0.37	6.31	5.54	0.01	-	0.00	0.00	-	0.00	0.00	730.10	0.02	0.12
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	25	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	2	4	25	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.73	0.02	0.12
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CI	6/1/2032	3/31/2035	5	739	10	2032	Haul	4	8	25	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assen	4/1/2035	8/31/2035	5	110	10	2035	Haul	-	-	25	0.37	6.33	5.50	0.01	-	0.00	0.00	-	0.00	0.00	731.19	0.02	0.12
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	9/1/2035	10/31/2035	5	43	10	2035	Haul	-	-	25	0.37	6.33	5.50	0.01	-	0.00	0.00	-	0.00	0.00	731.19	0.02	0.12
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	25	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	2	4	25	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.73	0.02	0.12
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	2032	Haul	4	8	25	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	2033	Haul	-	-	25	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	9/1/2033	10/31/2035	5	565	10	2033	Haul	-	-	25	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	25	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	2	4	25	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.73	0.02	0.12
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CI	8/1/2032	5/31/2033	5	217	10	2032	Haul	10	20	25	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assen	5/1/2033	10/31/2033	5	131	10	2033	Haul	-	-	25	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Haul	-	-	25	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	25	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	4	25	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.36	0.02	0.12
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Haul	2	4	25	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Haul	-	-	25	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Haul	-	-	25	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	25	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	4	25	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.36	0.02	0.12
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	2	4	25	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	25	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Haul	-	-	25	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	25	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	4	25	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.36	0.02	0.12
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Haul	2	4	25	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Haul	-	-	25	0.37	6.35	5.48	0.01	-	0.00	0.00	-	0.00	0.00	734.19	0.02	0.12
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Haul	-	-	25	0.37	6.35	5.48	0.01	-	0.00	0.00	-	0.00	0.00	734.19	0.02	0.12
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	25	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	4	25	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.36	0.02	0.12
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Haul	2	4	25	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Haul	-	-	25	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Haul	-	-	25	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	25	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	4	25	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.36	0.02	0.12
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	2	4	25	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Haul	-	-	25	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Haul	-	-	25	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	25	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	4	25	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.36	0.02	0.12
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	2032	Haul	2	4	25	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	2032	Haul	-	-	25	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	11/1/2032	12/31/2034	5	565	10	2032	Haul	-	-	25	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	25	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	4	25	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.36	0.02	0.12
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	2	4	25	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Haul	-	-	25	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Haul	-	-	25	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	25	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	4	25	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.36	0.02	0.12
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Haul	2	4	25	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Haul	-	-	25	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Haul	-	-	25	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12

Sepulveda Transit Corridor Project - ALTERNATIVE 1

SOIL/MATERIAL HAUL TRUCKS (OFFSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Daily Emissions (lb/day)													
											ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	6	12	25	0.02	1.05	0.18	0.01	0.27	0.02	0.29	0.07	0.02	0.09	964.7	0.00	0.15
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Haul	16	32	25	0.05	2.74	0.47	0.02	0.73	0.05	0.78	0.20	0.04	0.24	2503.1	0.00	0.39
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	2	4	25	0.01	0.35	0.06	0.00	0.09	0.01	0.10	0.02	0.01	0.03	321.6	0.00	0.05
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CI	6/1/2032	3/31/2035	5	739	10	2032	Haul	4	8	25	0.01	0.68	0.12	0.01	0.18	0.01	0.19	0.05	0.01	0.06	625.8	0.00	0.10
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assen	4/1/2035	8/31/2035	5	110	10	2035	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	9/1/2035	10/31/2035	5	43	10	2035	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	2	4	25	0.01	0.35	0.06	0.00	0.09	0.01	0.10	0.02	0.01	0.03	321.6	0.00	0.05
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	2032	Haul	4	8	25	0.01	0.68	0.12	0.01	0.18	0.01	0.19	0.05	0.01	0.06	625.8	0.00	0.10
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	9/1/2033	10/31/2035	5	565	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	2	4	25	0.01	0.35	0.06	0.00	0.09	0.01	0.10	0.02	0.01	0.03	321.6	0.00	0.05
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CI	8/1/2032	5/31/2033	5	217	10	2032	Haul	10	20	25	0.03	1.71	0.29	0.01	0.46	0.03	0.49	0.12	0.03	0.15	1564.4	0.00	0.25
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assen	5/1/2033	10/31/2033	5	131	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	4	25	0.01	0.35	0.06	0.00	0.09	0.01	0.10	0.02	0.01	0.03	317.1	0.00	0.05
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Haul	2	4	25	0.01	0.34	0.06	0.00	0.09	0.01	0.10	0.02	0.01	0.03	312.9	0.00	0.05
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	4	25	0.01	0.35	0.06	0.00	0.09	0.01	0.10	0.02	0.01	0.03	317.1	0.00	0.05
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	2	4	25	0.01	0.34	0.06	0.00	0.09	0.01	0.10	0.02	0.01	0.03	312.9	0.00	0.05
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	4	25	0.01	0.35	0.06	0.00	0.09	0.01	0.10	0.02	0.01	0.03	317.1	0.00	0.05
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Haul	2	4	25	0.01	0.34	0.06	0.00	0.09	0.01	0.10	0.02	0.01	0.03	312.9	0.00	0.05
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	4	25	0.01	0.35	0.06	0.00	0.09	0.01	0.10	0.02	0.01	0.03	317.1	0.00	0.05
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Haul	2	4	25	0.01	0.34	0.06	0.00	0.09	0.01	0.10	0.02	0.01	0.03	312.9	0.00	0.05
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	4	25	0.01	0.35	0.06	0.00	0.09	0.01	0.10	0.02	0.01	0.03	317.1	0.00	0.05
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	2	4	25	0.01	0.34	0.06	0.00	0.09	0.01	0.10	0.02	0.01	0.03	312.9	0.00	0.05
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	4	25	0.01	0.35	0.06	0.00	0.09	0.01	0.10	0.02	0.01	0.03	317.1	0.00	0.05
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	2032	Haul	2	4	25	0.01	0.34	0.06	0.00	0.09	0.01	0.10	0.02	0.01	0.03	312.9	0.00	0.05
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	2032	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	11/1/2032	12/31/2034	5	565	10	2032	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	4	25	0.01	0.35	0.06	0.00	0.09	0.01	0.10	0.02	0.01	0.03	317.1	0.00	0.05
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	2	4	25	0.01	0.34	0.06	0.00	0.09	0.01	0.10	0.02	0.01	0.03	312.9	0.00	0.05
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	4	25	0.01	0.35	0.06	0.00	0.09	0.01	0.10	0.02	0.01	0.03	317.1	0.00	0.05
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Haul	2	4	25	0.01	0.34	0.06	0.00	0.09	0.01	0.10	0.02	0.01	0.03	312.9	0.00	0.05
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 1

SOIL/MATERIAL HAUL TRUCKS (OFFSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Total Emissions (tons) ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	Total Emissions (metric tons) CO_2	CH_4	N_2O	CO_2e
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	6	12	25	0.01	0.34	0.06	0.00	0.09	0.01	0.10	0.02	0.01	0.03	286.6	0.00	0.05	300.1
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Haul	16	32	25	0.02	1.16	0.20	0.01	0.31	0.02	0.33	0.08	0.02	0.10	961.7	0.00	0.15	1006.8
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	2	4	25	0.00	0.11	0.02	0.00	0.03	0.00	0.03	0.01	0.00	0.01	95.5	0.00	0.02	100.0
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CI	6/1/2032	3/31/2035	5	739	10	2032	Haul	4	8	25	0.00	0.25	0.04	0.00	0.07	0.00	0.07	0.02	0.00	0.02	209.8	0.00	0.03	219.6
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assen	4/1/2035	8/31/2035	5	110	10	2035	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	9/1/2035	10/31/2035	5	43	10	2035	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	2	4	25	0.00	0.11	0.02	0.00	0.03	0.00	0.03	0.01	0.00	0.01	95.5	0.00	0.02	100.0
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	2032	Haul	4	8	25	0.00	0.08	0.01	0.00	0.02	0.00	0.02	0.01	0.00	0.01	67.8	0.00	0.01	71.0
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	9/1/2033	10/31/2035	5	565	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	2	4	25	0.00	0.11	0.02	0.00	0.03	0.00	0.03	0.01	0.00	0.01	95.5	0.00	0.02	100.0
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CI	8/1/2032	5/31/2033	5	217	10	2032	Haul	10	20	25	0.00	0.19	0.03	0.00	0.05	0.00	0.05	0.01	0.00	0.02	154.0	0.00	0.02	161.2
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assen	5/1/2033	10/31/2033	5	131	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	4	25	0.00	0.03	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	28.3	0.00	0.00	29.7
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Haul	2	4	25	0.00	0.04	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	33.8	0.00	0.01	35.4
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	4	25	0.00	0.03	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	28.3	0.00	0.00	29.7
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	2	4	25	0.00	0.03	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	28.0	0.00	0.00	29.3
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	4	25	0.00	0.03	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	28.3	0.00	0.00	29.7
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Haul	2	4	25	0.00	0.09	0.01	0.00	0.02	0.00	0.02	0.01	0.00	0.01	71.2	0.00	0.01	74.6
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	4	25	0.00	0.03	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	28.3	0.00	0.00	29.7
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Haul	2	4	25	0.00	0.05	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	40.0	0.00	0.01	41.9
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	4	25	0.00	0.03	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	28.3	0.00	0.00	29.7
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	2	4	25	0.00	0.03	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	28.0	0.00	0.00	29.3
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	4	25	0.00	0.03	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	28.3	0.00	0.00	29.7
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	2032	Haul	2	4	25	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.3	0.00	0.00	12.9
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	2032	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	11/1/2032	12/31/2034	5	565	10	2032	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	4	25	0.00	0.03	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	28.3	0.00	0.00	29.7
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	2	4	25	0.00	0.03	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	28.0	0.00	0.00	29.3
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	4	25	0.00	0.03	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	28.3	0.00	0.00	29.7
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Haul	2	4	25	0.00	0.04	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	33.8	0.00	0.01	35.4
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 1

SOIL/MATERIAL HAUL TRUCKS (OFFSITE)

											Running Emission Factor (g/mile)[1,2]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	25	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	25	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	6	12	25	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 2-Wilshire Blvd-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	25	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	25	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	25	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	25	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	25	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	4	8	25	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 3-Sunset Onramp-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	25	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	25	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	25	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	25	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	25	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	6	12	25	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	25	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	25	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	25	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	25	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	25	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	6	12	25	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	25	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	25	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	25	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	25	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	25	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	14	28	25	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	25	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	25	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	25	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Haul	-	-	25	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	2	4	25	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Haul	22	44	25	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Haul	-	-	25	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Haul	-	-	25	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Haul	-	-	25	0.01	1.27	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1356.7	0.00	0.21
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Haul	-	-	25	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	4	8	25	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Haul	12	24	25	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	2033	Haul	-	-	25	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	2034	Haul	-	-	25	0.01	1.27	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1356.7	0.00	0.21
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	2035	Haul	-	-	25	0.01	1.25	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1342.3	0.00	0.21
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Haul	2	4	25	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Haul	2	4	25	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Haul	2	4	25	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Haul	2	4	25	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Haul	-	-	25	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Haul	46	92	25	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Haul	36	72	25	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Haul	34	68	25	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Haul	2	4	25	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Haul	-	-	25	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Haul	-	-	25	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Haul	-	-	25	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Haul	-	-	25	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Haul	2	4	25	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate Speeds; **Fleet Mix:100%** HHDT); **Fuel Type:** Diesel
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 1

SOIL/MATERIAL HAUL TRUCKS (OFFSITE)

											Non-Running Emission Factor (g/trip)[1,3]													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	25	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	25	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	6	12	25	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 2-Wilshire Blvd-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	25	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	25	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	25	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	25	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	25	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	4	8	25	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 3-Sunset Onramp-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	25	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	25	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	25	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	25	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	25	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	6	12	25	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	25	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	25	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	25	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	25	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	25	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	6	12	25	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	25	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	25	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	25	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	25	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	25	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	14	28	25	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	25	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	25	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	25	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Haul	-	-	25	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.36	0.02	0.12
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	2	4	25	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Haul	22	44	25	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Haul	-	-	25	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Haul	-	-	25	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Haul	-	-	25	0.37	6.35	5.48	0.01	-	0.00	0.00	-	0.00	0.00	734.19	0.02	0.12
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Haul	-	-	25	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.36	0.02	0.12
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	4	8	25	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Haul	12	24	25	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	2033	Haul	-	-	25	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	2034	Haul	-	-	25	0.37	6.35	5.48	0.01	-	0.00	0.00	-	0.00	0.00	734.19	0.02	0.12
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	2035	Haul	-	-	25	0.37	6.33	5.50	0.01	-	0.00	0.00	-	0.00	0.00	731.19	0.02	0.12
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Haul	2	4	25	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Haul	2	4	25	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Haul	2	4	25	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Haul	2	4	25	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Haul	-	-	25	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Haul	46	92	25	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.73	0.02	0.12
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Haul	36	72	25	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.36	0.02	0.12
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Haul	34	68	25	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Haul	2	4	25	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Haul	-	-	25	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Haul	-	-	25	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Haul	-	-	25	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.73	0.02	0.12
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Haul	-	-	25	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.73	0.02	0.12
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Haul	2	4	25	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.73	0.02	0.12

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate Speeds; **Fleet Mix:100%** HHDT); **Fuel Type:** Diesel
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 1

SOIL/MATERIAL HAUL TRUCKS (OFFSITE)

											Daily Emissions (lb/day)												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	6	12	25	0.02	1.02	0.18	0.01	0.28	0.02	0.29	0.07	0.02	0.09	927.3	0.00	0.15
TPSS 2-Wilshire Blvd-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	4	8	25	0.01	0.68	0.12	0.01	0.18	0.01	0.19	0.05	0.01	0.06	618.2	0.00	0.10
TPSS 3-Sunset Onramp-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	6	12	25	0.02	1.02	0.18	0.01	0.28	0.02	0.29	0.07	0.02	0.09	927.3	0.00	0.15
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	6	12	25	0.02	1.02	0.18	0.01	0.28	0.02	0.29	0.07	0.02	0.09	927.3	0.00	0.15
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	14	28	25	0.04	2.37	0.41	0.02	0.64	0.04	0.68	0.17	0.04	0.21	2163.7	0.00	0.34
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	2	4	25	0.01	0.34	0.06	0.00	0.09	0.01	0.10	0.02	0.01	0.03	309.1	0.00	0.05
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Haul	22	44	25	0.06	3.72	0.64	0.03	1.01	0.06	1.07	0.27	0.06	0.33	3400.1	0.00	0.54
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	4	8	25	0.01	0.68	0.12	0.01	0.18	0.01	0.19	0.05	0.01	0.06	618.2	0.00	0.10
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Haul	12	24	25	0.03	2.03	0.35	0.02	0.55	0.03	0.58	0.15	0.03	0.18	1854.6	0.00	0.29
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	2034	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	2035	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Haul	2	4	25	0.01	0.35	0.06	0.00	0.09	0.01	0.10	0.02	0.01	0.03	326.2	0.00	0.05
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Haul	2	4	25	0.01	0.35	0.06	0.00	0.09	0.01	0.10	0.02	0.01	0.03	326.2	0.00	0.05
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Haul	2	4	25	0.01	0.35	0.06	0.00	0.09	0.01	0.10	0.02	0.01	0.03	326.2	0.00	0.05
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Haul	2	4	25	0.01	0.35	0.06	0.00	0.09	0.01	0.10	0.02	0.01	0.03	326.2	0.00	0.05
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Haul	46	92	25	0.13	8.05	1.36	0.07	2.10	0.13	2.23	0.57	0.13	0.69	7395.9	0.01	1.17
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Haul	36	72	25	0.10	6.23	1.06	0.05	1.65	0.10	1.75	0.44	0.10	0.54	5707.3	0.00	0.90
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Haul	34	68	25	0.10	5.82	1.00	0.05	1.56	0.10	1.66	0.42	0.09	0.51	5319.0	0.00	0.84
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Haul	2	4	25	0.01	0.35	0.06	0.00	0.09	0.01	0.10	0.02	0.01	0.03	326.2	0.00	0.05
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Haul	2	4	25	0.01	0.35	0.06	0.00	0.09	0.01	0.10	0.02	0.01	0.03	321.6	0.00	0.05

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate Speeds; **Fleet Mix:100%** HHDT); **Fuel Type:** Diesel
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 1

SOIL/MATERIAL HAUL TRUCKS (OFFSITE)

											Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	6	12	25	0.00	0.02	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	18.1	0.00	0.00	18.9
TPSS 2-Wilshire Blvd-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	4	8	25	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.1	0.00	0.00	12.6
TPSS 3-Sunset Onramp-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	6	12	25	0.00	0.02	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	18.1	0.00	0.00	18.9
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	6	12	25	0.00	0.02	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	18.1	0.00	0.00	18.9
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	14	28	25	0.00	0.05	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	42.2	0.00	0.01	44.2
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	2	4	25	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.0	0.00	0.00	9.4
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Haul	22	44	25	0.00	0.12	0.02	0.00	0.03	0.00	0.03	0.01	0.00	0.01	100.2	0.00	0.02	105.0
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	4	8	25	0.00	0.02	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	17.9	0.00	0.00	18.8
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Haul	12	24	25	0.00	0.07	0.01	0.00	0.02	0.00	0.02	0.00	0.00	0.01	54.7	0.00	0.01	57.2
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	2033	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	2034	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	2035	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Haul	2	4	25	0.00	0.02	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	16.3	0.00	0.00	17.0
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Haul	2	4	25	0.00	0.03	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	22.8	0.00	0.00	23.9
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Haul	2	4	25	0.00	0.02	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	16.3	0.00	0.00	17.0
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Haul	2	4	25	0.00	0.03	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	22.8	0.00	0.00	23.9
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Haul	46	92	25	0.01	0.88	0.15	0.01	0.23	0.01	0.24	0.06	0.01	0.08	731.3	0.00	0.12	765.7
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Haul	36	72	25	0.01	0.61	0.10	0.01	0.16	0.01	0.17	0.04	0.01	0.05	510.0	0.00	0.08	534.0
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Haul	34	68	25	0.01	0.70	0.12	0.01	0.19	0.01	0.20	0.05	0.01	0.06	579.0	0.00	0.09	606.2
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Haul	2	4	25	0.00	0.02	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	19.2	0.00	0.00	20.1
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Haul	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Haul	2	4	25	0.00	0.14	0.02	0.00	0.04	0.00	0.04	0.01	0.00	0.01	114.1	0.00	0.02	119.4

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate Speeds; **Fleet Mix:100%** HHDT); **Fuel Type:** Diesel
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 1

PRECAST HAUL TRUCKS (ONSITE)

											Running Emission Factor (g/mile)[1,2,4]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	-	-	0.1	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Haul	-	-	0.1	0.03	4.51	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1831.9	0.00	0.29
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Haul	-	-	0.1	0.03	4.48	0.31	0.02	184.11	0.01	184.12	18.39	0.01	18.40	1810.2	0.00	0.29
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	-	-	0.1	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH)	6/1/2032	3/31/2035	5	739	10	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembly	4/1/2035	8/31/2035	5	110	10	2035	Haul	-	-	0.1	0.03	4.51	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1831.9	0.00	0.29
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	9/1/2035	10/31/2035	5	43	10	2035	Haul	-	-	0.1	0.03	4.51	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1831.9	0.00	0.29
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	-	-	0.1	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	9/1/2033	10/31/2035	5	565	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	-	-	0.1	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	8/1/2032	5/31/2033	5	217	10	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	0.1	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	0.1	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	0.1	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Haul	-	-	0.1	0.03	4.53	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1854.7	0.00	0.29
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Haul	-	-	0.1	0.03	4.53	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1854.7	0.00	0.29
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	0.1	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	0.1	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	0.1	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	11/1/2032	12/31/2034	5	565	10	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	0.1	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	0.1	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30

Sepulveda Transit Corridor Project - ALTERNATIVE 1

PRECAST HAUL TRUCKS (ONSITE)

											Non-Running Emission Factor (g/trip)[1,3]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	-	-	0.1	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.73	0.02	0.12
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Haul	-	-	0.1	0.37	6.33	5.50	0.01	-	0.00	0.00	-	0.00	0.00	731.19	0.02	0.12
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Haul	-	-	0.1	0.37	6.31	5.54	0.01	-	0.00	0.00	-	0.00	0.00	730.10	0.02	0.12
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	-	-	0.1	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.73	0.02	0.12
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH)	6/1/2032	3/31/2035	5	739	10	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembly	4/1/2035	8/31/2035	5	110	10	2035	Haul	-	-	0.1	0.37	6.33	5.50	0.01	-	0.00	0.00	-	0.00	0.00	731.19	0.02	0.12
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	9/1/2035	10/31/2035	5	43	10	2035	Haul	-	-	0.1	0.37	6.33	5.50	0.01	-	0.00	0.00	-	0.00	0.00	731.19	0.02	0.12
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	-	-	0.1	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.73	0.02	0.12
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	9/1/2033	10/31/2035	5	565	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	-	-	0.1	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.73	0.02	0.12
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	8/1/2032	5/31/2033	5	217	10	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	0.1	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.36	0.02	0.12
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	0.1	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.36	0.02	0.12
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	0.1	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.36	0.02	0.12
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Haul	-	-	0.1	0.37	6.35	5.48	0.01	-	0.00	0.00	-	0.00	0.00	734.19	0.02	0.12
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Haul	-	-	0.1	0.37	6.35	5.48	0.01	-	0.00	0.00	-	0.00	0.00	734.19	0.02	0.12
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	0.1	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.36	0.02	0.12
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	0.1	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.36	0.02	0.12
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	0.1	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.36	0.02	0.12
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	11/1/2032	12/31/2034	5	565	10	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	0.1	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.36	0.02	0.12
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	0.1	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.36	0.02	0.12
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12

Sepulveda Transit Corridor Project - ALTERNATIVE 1

PRECAST HAUL TRUCKS (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	Daily Emissions (lb/day)												
											ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH)	6/1/2032	3/31/2035	5	739	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembly	4/1/2035	8/31/2035	5	110	10	2035	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	9/1/2035	10/31/2035	5	43	10	2035	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	9/1/2033	10/31/2035	5	565	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	8/1/2032	5/31/2033	5	217	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	11/1/2032	12/31/2034	5	565	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 1

PRECAST HAUL TRUCKS (ONSITE)

											Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH)	6/1/2032	3/31/2035	5	739	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembly	4/1/2035	8/31/2035	5	110	10	2035	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	9/1/2035	10/31/2035	5	43	10	2035	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	9/1/2033	10/31/2035	5	565	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	8/1/2032	5/31/2033	5	217	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	11/1/2032	12/31/2034	5	565	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 1

PRECAST HAUL TRUCKS (ONSITE)

											Running Emission Factor (g/mile)[1,2,4]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 2-Wilshire Blvd-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 3-Sunset Onramp-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Haul	-	-	0.1	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Haul	-	-	0.1	0.03	4.53	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1854.7	0.00	0.29
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Haul	-	-	0.1	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	2034	Haul	-	-	0.1	0.03	4.53	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1854.7	0.00	0.29
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	2035	Haul	-	-	0.1	0.03	4.51	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1831.9	0.00	0.29
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Haul	-	-	0.1	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Haul	-	-	0.1	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Haul	-	-	0.1	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Haul	-	-	0.1	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Haul	4	4	0.1	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** 100% HHDT; **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 1

PRECAST HAUL TRUCKS (ONSITE)

											Non-Running Emission Factor (g/trip)[1,3]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 2-Wilshire Blvd-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 3-Sunset Onramp-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Haul	-	-	0.1	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.36	0.02	0.12
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Haul	-	-	0.1	0.37	6.35	5.48	0.01	-	0.00	0.00	-	0.00	0.00	734.19	0.02	0.12
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Haul	-	-	0.1	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.36	0.02	0.12
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	2034	Haul	-	-	0.1	0.37	6.35	5.48	0.01	-	0.00	0.00	-	0.00	0.00	734.19	0.02	0.12
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	2035	Haul	-	-	0.1	0.37	6.33	5.50	0.01	-	0.00	0.00	-	0.00	0.00	731.19	0.02	0.12
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Haul	-	-	0.1	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.73	0.02	0.12
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Haul	-	-	0.1	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.36	0.02	0.12
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Haul	-	-	0.1	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.73	0.02	0.12
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Haul	-	-	0.1	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.73	0.02	0.12
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Haul	4	4	0.1	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.73	0.02	0.12

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** 100% HHDT; **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 1

PRECAST HAUL TRUCKS (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	Daily Emissions (lb/day)												
											ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	2035	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Haul	4	4	0.1	0.00	0.06	0.05	0.00	0.16	0.00	0.16	0.02	0.00	0.02	8.4	0.00	0.00

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** 100% HHDT; **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 1

PRECAST HAUL TRUCKS (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	Total Emissions (tons) ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	Total Emissions (metric tons) CO_2	CH_4	N_2O	CO_2e
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	2035	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Haul	4	4	0.1	0.00	0.02	0.02	0.00	0.06	0.00	0.06	0.01	0.00	0.01	3.0	0.00	0.00	3.1

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** 100% HHDT; **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 1

PRECAST HAUL TRUCKS (OFFSITE)

											Running Emission Factor (g/mile)[1,2]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	-	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	-	-	-	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Haul	-	-	-	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Haul	-	-	-	0.01	1.25	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1342.3	0.00	0.21
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Haul	-	-	-	0.01	1.24	0.04	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1327.5	0.00	0.21
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	-	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	-	-	-	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CI	6/1/2032	3/31/2035	5	739	10	2032	Haul	-	-	-	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assem	4/1/2035	8/31/2035	5	110	10	2035	Haul	-	-	-	0.01	1.25	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1342.3	0.00	0.21
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	9/1/2035	10/31/2035	5	43	10	2035	Haul	-	-	-	0.01	1.25	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1342.3	0.00	0.21
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	-	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	-	-	-	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	2032	Haul	-	-	-	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	9/1/2033	10/31/2035	5	565	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	-	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	-	-	-	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CI	8/1/2032	5/31/2033	5	217	10	2032	Haul	-	-	-	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assem	5/1/2033	10/31/2033	5	131	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	-	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	-	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Haul	-	-	-	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	-	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	-	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	-	-	-	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	-	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	-	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Haul	-	-	-	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Haul	-	-	-	0.01	1.27	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1356.7	0.00	0.21
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Haul	-	-	-	0.01	1.27	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1356.7	0.00	0.21
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	-	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	-	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Haul	-	-	-	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	-	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	-	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	-	-	-	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	-	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	-	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	2032	Haul	-	-	-	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	2032	Haul	-	-	-	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	11/1/2032	12/31/2034	5	565	10	2032	Haul	-	-	-	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	-	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	-	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	-	-	-	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	-	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	-	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Haul	-	-	-	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22

Sepulveda Transit Corridor Project - ALTERNATIVE 1

PRECAST HAUL TRUCKS (OFFSITE)

											Non-Running Emission Factor (g/trip)[1,3]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	-	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	-	-	-	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.73	0.02	0.12
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Haul	-	-	-	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Haul	-	-	-	0.37	6.33	5.50	0.01	-	0.00	0.00	-	0.00	0.00	731.19	0.02	0.12
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Haul	-	-	-	0.37	6.31	5.54	0.01	-	0.00	0.00	-	0.00	0.00	730.10	0.02	0.12
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	-	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	-	-	-	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.73	0.02	0.12
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CI	6/1/2032	3/31/2035	5	739	10	2032	Haul	-	-	-	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assen	4/1/2035	8/31/2035	5	110	10	2035	Haul	-	-	-	0.37	6.33	5.50	0.01	-	0.00	0.00	-	0.00	0.00	731.19	0.02	0.12
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	9/1/2035	10/31/2035	5	43	10	2035	Haul	-	-	-	0.37	6.33	5.50	0.01	-	0.00	0.00	-	0.00	0.00	731.19	0.02	0.12
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	-	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	-	-	-	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.73	0.02	0.12
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	2032	Haul	-	-	-	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	9/1/2033	10/31/2035	5	565	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	-	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	-	-	-	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.73	0.02	0.12
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CI	8/1/2032	5/31/2033	5	217	10	2032	Haul	-	-	-	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assen	5/1/2033	10/31/2033	5	131	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	-	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	-	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.36	0.02	0.12
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Haul	-	-	-	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	-	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	-	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.36	0.02	0.12
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	-	-	-	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	-	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	-	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.36	0.02	0.12
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Haul	-	-	-	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Haul	-	-	-	0.37	6.35	5.48	0.01	-	0.00	0.00	-	0.00	0.00	734.19	0.02	0.12
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Haul	-	-	-	0.37	6.35	5.48	0.01	-	0.00	0.00	-	0.00	0.00	734.19	0.02	0.12
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	-	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	-	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.36	0.02	0.12
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Haul	-	-	-	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	-	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	-	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.36	0.02	0.12
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	-	-	-	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	-	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	-	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.36	0.02	0.12
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	2032	Haul	-	-	-	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	2032	Haul	-	-	-	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	11/1/2032	12/31/2034	5	565	10	2032	Haul	-	-	-	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	-	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	-	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.36	0.02	0.12
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	-	-	-	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	-	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	-	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.36	0.02	0.12
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Haul	-	-	-	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12

Sepulveda Transit Corridor Project - ALTERNATIVE 1

PRECAST HAUL TRUCKS (OFFSITE)

											Daily Emissions (lb/day)												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CI	6/1/2032	3/31/2035	5	739	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assem	4/1/2035	8/31/2035	5	110	10	2035	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	9/1/2035	10/31/2035	5	43	10	2035	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	9/1/2033	10/31/2035	5	565	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CI	8/1/2032	5/31/2033	5	217	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assem	5/1/2033	10/31/2033	5	131	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	11/1/2032	12/31/2034	5	565	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 1

PRECAST HAUL TRUCKS (OFFSITE)

											Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CI	6/1/2032	3/31/2035	5	739	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assem	4/1/2035	8/31/2035	5	110	10	2035	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	9/1/2035	10/31/2035	5	43	10	2035	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	9/1/2033	10/31/2035	5	565	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CI	8/1/2032	5/31/2033	5	217	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assem	5/1/2033	10/31/2033	5	131	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	11/1/2032	12/31/2034	5	565	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 1

PRECAST HAUL TRUCKS (OFFSITE)

											Running Emission Factor (g/mile)[1,2]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	-	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 2-Wilshire Blvd-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	-	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 3-Sunset Onramp-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	-	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	-	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	-	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Haul	-	-	-	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Haul	-	-	-	0.01	1.27	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1356.7	0.00	0.21
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Haul	-	-	-	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	2034	Haul	-	-	-	0.01	1.27	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1356.7	0.00	0.21
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	2035	Haul	-	-	-	0.01	1.25	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1342.3	0.00	0.21
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Haul	-	-	-	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Haul	-	-	-	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Haul	-	-	-	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Haul	-	-	-	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Haul	-	-	-	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Haul	-	-	-	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Haul	-	-	-	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Haul	-	-	-	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Haul	-	-	-	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Haul	-	-	-	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Haul	-	-	-	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Haul	-	-	-	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Haul	-	-	-	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Haul	4	8	69	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate Speeds; **Fleet Mix:100%** HHDT); **Fuel Type:** Diesel
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 1

PRECAST HAUL TRUCKS (OFFSITE)

											Non-Running Emission Factor (g/trip)[1,3]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	-	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 2-Wilshire Blvd-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	-	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 3-Sunset Onramp-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	-	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	-	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	-	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Haul	-	-	-	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.36	0.02	0.12
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Haul	-	-	-	0.37	6.35	5.48	0.01	-	0.00	0.00	-	0.00	0.00	734.19	0.02	0.12
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Haul	-	-	-	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.36	0.02	0.12
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.30	0.02	0.12
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	2034	Haul	-	-	-	0.37	6.35	5.48	0.01	-	0.00	0.00	-	0.00	0.00	734.19	0.02	0.12
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	2035	Haul	-	-	-	0.37	6.33	5.50	0.01	-	0.00	0.00	-	0.00	0.00	731.19	0.02	0.12
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Haul	-	-	-	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Haul	-	-	-	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Haul	-	-	-	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Haul	-	-	-	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Haul	-	-	-	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Haul	-	-	-	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.73	0.02	0.12
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Haul	-	-	-	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.36	0.02	0.12
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Haul	-	-	-	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.62	0.02	0.12
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Haul	-	-	-	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Haul	-	-	-	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Haul	-	-	-	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.17	0.02	0.12
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Haul	-	-	-	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.73	0.02	0.12
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Haul	-	-	-	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.73	0.02	0.12
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Haul	4	8	69	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.73	0.02	0.12

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate Speeds; **Fleet Mix:100%** HHDT); **Fuel Type:** Diesel
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 1

PRECAST HAUL TRUCKS (OFFSITE)

											Daily Emissions (lb/day)												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	2034	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	2035	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Haul	4	8	69	0.02	1.73	0.16	0.02	0.50	0.03	0.54	0.14	0.03	0.17	1751.5	0.00	0.28

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate Speeds; **Fleet Mix:100%** HHDT); **Fuel Type:** Diesel
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 1

PRECAST HAUL TRUCKS (OFFSITE)

											Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	2034	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	2035	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Haul	4	8	69	0.01	0.68	0.06	0.01	0.20	0.01	0.21	0.05	0.01	0.06	621.3	0.00	0.10	650.4

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate Speeds; **Fleet Mix:100%** HHDT); **Fuel Type:** Diesel
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 1

VENDOR TRUCKS (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	Onsite Trip Length (miles)	Running Emission Factor (g/mile)[1,2,4] ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Concrete	-	-	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Concrete	-	-	0.1	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Concrete	24	24	0.1	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Concrete	-	-	0.1	0.02	2.76	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1639.3	0.00	0.26
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Concrete	-	-	0.1	0.02	2.73	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1623.6	0.00	0.26
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Concrete	-	-	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Concrete	-	-	0.1	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH)	6/1/2032	3/31/2035	5	739	10	2032	Concrete	8	8	0.1	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembly	4/1/2035	8/31/2035	5	110	10	2035	Concrete	-	-	0.1	0.02	2.76	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1639.3	0.00	0.26
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	9/1/2035	10/31/2035	5	43	10	2035	Concrete	-	-	0.1	0.02	2.76	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1639.3	0.00	0.26
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Concrete	-	-	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Concrete	-	-	0.1	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	2032	Concrete	4	4	0.1	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	9/1/2033	10/31/2035	5	565	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Concrete	-	-	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Concrete	-	-	0.1	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	8/1/2032	5/31/2033	5	217	10	2032	Concrete	14	14	0.1	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	0.1	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Concrete	2	2	0.1	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	0.1	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete	2	2	0.1	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	0.1	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Concrete	2	2	0.1	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Concrete	-	-	0.1	0.02	2.78	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1655.8	0.00	0.26
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Concrete	-	-	0.1	0.02	2.78	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1655.8	0.00	0.26
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	0.1	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Concrete	2	2	0.1	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	0.1	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete	2	2	0.1	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	0.1	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	2032	Concrete	2	2	0.1	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	2032	Concrete	-	-	0.1	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	11/1/2032	12/31/2034	5	565	10	2032	Concrete	-	-	0.1	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	0.1	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete	2	2	0.1	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	0.1	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Concrete	2	2	0.1	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26

Sepulveda Transit Corridor Project - ALTERNATIVE 1

VENDOR TRUCKS (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	Onsite Trip Length (miles)	Non-Running Emission Factor (g/trip)[1,3] ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Concrete	-	-	0.1	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Concrete	-	-	0.1	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.43	0.01	0.07
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Concrete	24	24	0.1	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Concrete	-	-	0.1	0.19	4.12	3.05	0.00	-	0.00	0.00	-	0.00	0.00	445.53	0.01	0.07
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Concrete	-	-	0.1	0.19	4.09	3.07	0.00	-	0.00	0.00	-	0.00	0.00	444.38	0.01	0.07
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Concrete	-	-	0.1	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Concrete	-	-	0.1	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.43	0.01	0.07
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH)	6/1/2032	3/31/2035	5	739	10	2032	Concrete	8	8	0.1	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembly	4/1/2035	8/31/2035	5	110	10	2035	Concrete	-	-	0.1	0.19	4.12	3.05	0.00	-	0.00	0.00	-	0.00	0.00	445.53	0.01	0.07
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	9/1/2035	10/31/2035	5	43	10	2035	Concrete	-	-	0.1	0.19	4.12	3.05	0.00	-	0.00	0.00	-	0.00	0.00	445.53	0.01	0.07
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Concrete	-	-	0.1	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Concrete	-	-	0.1	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.43	0.01	0.07
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	2032	Concrete	4	4	0.1	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	9/1/2033	10/31/2035	5	565	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Concrete	-	-	0.1	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Concrete	-	-	0.1	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.43	0.01	0.07
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	8/1/2032	5/31/2033	5	217	10	2032	Concrete	14	14	0.1	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	0.1	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	0.1	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.60	0.01	0.07
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Concrete	2	2	0.1	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	0.1	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	0.1	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.60	0.01	0.07
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete	2	2	0.1	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	0.1	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	0.1	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.60	0.01	0.07
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Concrete	2	2	0.1	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Concrete	-	-	0.1	0.19	4.15	3.04	0.00	-	0.00	0.00	-	0.00	0.00	447.64	0.01	0.07
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Concrete	-	-	0.1	0.19	4.15	3.04	0.00	-	0.00	0.00	-	0.00	0.00	447.64	0.01	0.07
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	0.1	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	0.1	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.60	0.01	0.07
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Concrete	2	2	0.1	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	0.1	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	0.1	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.60	0.01	0.07
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete	2	2	0.1	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	0.1	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	0.1	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.60	0.01	0.07
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	2032	Concrete	2	2	0.1	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	2032	Concrete	-	-	0.1	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	11/1/2032	12/31/2034	5	565	10	2032	Concrete	-	-	0.1	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	0.1	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	0.1	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.60	0.01	0.07
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete	2	2	0.1	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	0.1	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	0.1	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.60	0.01	0.07
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Concrete	2	2	0.1	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07

Sepulveda Transit Corridor Project - ALTERNATIVE 1

VENDOR TRUCKS (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	Onsite Trip Length (miles)	Daily Emissions (lb/day)													
											ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Concrete	24	24	0.1	0.01	0.24	0.16	0.00	0.97	0.00	0.97	0.10	0.00	0.10	33.0	0.00	0.01
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH)	6/1/2032	3/31/2035	5	739	10	2032	Concrete	8	8	0.1	0.00	0.08	0.05	0.00	0.32	0.00	0.32	0.03	0.00	0.03	11.0	0.00	0.00
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembly	4/1/2035	8/31/2035	5	110	10	2035	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	9/1/2035	10/31/2035	5	43	10	2035	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	2032	Concrete	4	4	0.1	0.00	0.04	0.03	0.00	0.16	0.00	0.16	0.02	0.00	0.02	5.5	0.00	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	9/1/2033	10/31/2035	5	565	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	8/1/2032	5/31/2033	5	217	10	2032	Concrete	14	14	0.1	0.01	0.14	0.09	0.00	0.57	0.00	0.57	0.06	0.00	0.06	19.2	0.00	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Concrete	2	2	0.1	0.00	0.02	0.01	0.00	0.08	0.00	0.08	0.01	0.00	0.01	2.7	0.00	0.00
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete	2	2	0.1	0.00	0.02	0.01	0.00	0.08	0.00	0.08	0.01	0.00	0.01	2.7	0.00	0.00
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Concrete	2	2	0.1	0.00	0.02	0.01	0.00	0.08	0.00	0.08	0.01	0.00	0.01	2.7	0.00	0.00
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Concrete	2	2	0.1	0.00	0.02	0.01	0.00	0.08	0.00	0.08	0.01	0.00	0.01	2.7	0.00	0.00
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete	2	2	0.1	0.00	0.02	0.01	0.00	0.08	0.00	0.08	0.01	0.00	0.01	2.7	0.00	0.00
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	2032	Concrete	2	2	0.1	0.00	0.02	0.01	0.00	0.08	0.00	0.08	0.01	0.00	0.01	2.7	0.00	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	2032	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	11/1/2032	12/31/2034	5	565	10	2032	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete	2	2	0.1	0.00	0.02	0.01	0.00	0.08	0.00	0.08	0.01	0.00	0.01	2.7	0.00	0.00
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Concrete	2	2	0.1	0.00	0.02	0.01	0.00	0.08	0.00	0.08	0.01	0.00	0.01	2.7	0.00	0.00
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 1

VENDOR TRUCKS (ONSITE)

											Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	Onsite Trip Length (miles)	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Concrete	24	24	0.1	0.00	0.10	0.07	0.00	0.41	0.00	0.41	0.04	0.00	0.04	12.7	0.00	0.00	13.3
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH)	6/1/2032	3/31/2035	5	739	10	2032	Concrete	8	8	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	3.7	0.00	0.00	3.9
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembly	4/1/2035	8/31/2035	5	110	10	2035	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	9/1/2035	10/31/2035	5	43	10	2035	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	2032	Concrete	4	4	0.1	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.6	0.00	0.00	0.6
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	9/1/2033	10/31/2035	5	565	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	8/1/2032	5/31/2033	5	217	10	2032	Concrete	14	14	0.1	0.00	0.02	0.01	0.00	0.06	0.00	0.06	0.01	0.00	0.01	1.9	0.00	0.00	2.0
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Concrete	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.3
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Concrete	2	2	0.1	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.6	0.00	0.00	0.7
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Concrete	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.3
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	2032	Concrete	2	2	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	2032	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	11/1/2032	12/31/2034	5	565	10	2032	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.3
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Concrete	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 1

VENDOR TRUCKS (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	Onsite Trip Length (miles)	Running Emission Factor (g/mile)[1,2,4] ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Concrete	-	-	0.1	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 2-Wilshire Blvd-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Concrete	2	2	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Concrete	-	-	0.1	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 3-Sunset Onramp-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Concrete	2	2	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Concrete	-	-	0.1	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Concrete	2	2	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Concrete	-	-	0.1	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Concrete	2	2	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Concrete	-	-	0.1	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Concrete	2	2	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Concrete	-	-	0.1	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Concrete	52	52	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Concrete	-	-	0.1	0.02	2.78	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1655.8	0.00	0.26
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Concrete	-	-	0.1	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	2033	Concrete	2	2	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	2034	Concrete	-	-	0.1	0.02	2.78	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1655.8	0.00	0.26
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	2035	Concrete	-	-	0.1	0.02	2.76	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1639.3	0.00	0.26
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Concrete	2	2	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Concrete	2	2	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Concrete	2	2	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Concrete	2	2	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Concrete	-	-	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Concrete	-	-	0.1	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Concrete	-	-	0.1	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Concrete	26	26	0.1	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Concrete	-	-	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Concrete	-	-	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Concrete	16	16	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Concrete	-	-	0.1	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Concrete	-	-	0.1	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Concrete	-	-	0.1	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** Heavy Duty-Mix (50% MHDT/50% HHDT); **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 1

VENDOR TRUCKS (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	Onsite Trip Length (miles)	Non-Running Emission Factor (g/trip)[1,3]													
											ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Concrete	-	-	0.1	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 2-Wilshire Blvd-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Concrete	2	2	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Concrete	-	-	0.1	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 3-Sunset Onramp-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Concrete	2	2	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Concrete	-	-	0.1	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Concrete	2	2	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Concrete	-	-	0.1	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Concrete	2	2	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Concrete	-	-	0.1	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Concrete	2	2	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Concrete	-	-	0.1	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.60	0.01	0.07
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Concrete	52	52	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Concrete	-	-	0.1	0.19	4.15	3.04	0.00	-	0.00	0.00	-	0.00	0.00	447.64	0.01	0.07
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Concrete	-	-	0.1	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.60	0.01	0.07
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	2033	Concrete	2	2	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	2034	Concrete	-	-	0.1	0.19	4.15	3.04	0.00	-	0.00	0.00	-	0.00	0.00	447.64	0.01	0.07
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	2035	Concrete	-	-	0.1	0.19	4.12	3.05	0.00	-	0.00	0.00	-	0.00	0.00	445.53	0.01	0.07
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Concrete	2	2	0.1	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Concrete	2	2	0.1	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Concrete	2	2	0.1	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Concrete	2	2	0.1	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Concrete	-	-	0.1	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Concrete	-	-	0.1	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.43	0.01	0.07
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Concrete	-	-	0.1	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.60	0.01	0.07
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Concrete	26	26	0.1	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Concrete	-	-	0.1	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Concrete	-	-	0.1	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Concrete	16	16	0.1	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Concrete	-	-	0.1	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.43	0.01	0.07
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Concrete	-	-	0.1	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.43	0.01	0.07
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Concrete	-	-	0.1	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.43	0.01	0.07

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** Heavy Duty-Mix (50% MHDT/50% HHDT); **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 1

VENDOR TRUCKS (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	Onsite Trip Length (miles)	Daily Emissions (lb/day)												
											ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Concrete	2	2	0.1	0.00	0.02	0.01	0.00	0.08	0.00	0.08	0.01	0.00	0.01	2.7	0.00	0.00
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Concrete	2	2	0.1	0.00	0.02	0.01	0.00	0.08	0.00	0.08	0.01	0.00	0.01	2.7	0.00	0.00
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Concrete	2	2	0.1	0.00	0.02	0.01	0.00	0.08	0.00	0.08	0.01	0.00	0.01	2.7	0.00	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Concrete	2	2	0.1	0.00	0.02	0.01	0.00	0.08	0.00	0.08	0.01	0.00	0.01	2.7	0.00	0.00
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Concrete	2	2	0.1	0.00	0.02	0.01	0.00	0.08	0.00	0.08	0.01	0.00	0.01	2.7	0.00	0.00
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Concrete	52	52	0.1	0.02	0.51	0.35	0.00	2.11	0.00	2.11	0.21	0.00	0.21	70.8	0.00	0.01
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	2033	Concrete	2	2	0.1	0.00	0.02	0.01	0.00	0.08	0.00	0.08	0.01	0.00	0.01	2.7	0.00	0.00
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	2034	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	2035	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Concrete	2	2	0.1	0.00	0.02	0.01	0.00	0.08	0.00	0.08	0.01	0.00	0.01	2.8	0.00	0.00
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Concrete	2	2	0.1	0.00	0.02	0.01	0.00	0.08	0.00	0.08	0.01	0.00	0.01	2.8	0.00	0.00
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Concrete	2	2	0.1	0.00	0.02	0.01	0.00	0.08	0.00	0.08	0.01	0.00	0.01	2.8	0.00	0.00
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Concrete	2	2	0.1	0.00	0.02	0.01	0.00	0.08	0.00	0.08	0.01	0.00	0.01	2.8	0.00	0.00
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Concrete	26	26	0.1	0.01	0.26	0.17	0.00	1.05	0.00	1.06	0.11	0.00	0.11	35.7	0.00	0.01
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Concrete	16	16	0.1	0.01	0.16	0.10	0.00	0.63	0.00	0.63	0.06	0.00	0.06	22.1	0.00	0.00
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** Heavy Duty-Mix (50% MHDT/50% HHDT); **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 1

VENDOR TRUCKS (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	Onsite Trip Length (miles)	Total Emissions (tons)										Total Emissions (metric tons)			
											ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Concrete	2	2	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Concrete	2	2	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Concrete	2	2	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Concrete	2	2	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Concrete	2	2	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Concrete	52	52	0.1	0.00	0.01	0.01	0.00	0.05	0.00	0.05	0.00	0.00	0.00	1.4	0.00	0.00	1.5
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	2033	Concrete	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	2034	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	2035	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Concrete	2	2	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Concrete	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.2
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Concrete	2	2	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Concrete	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.2
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Concrete	26	26	0.1	0.00	0.03	0.02	0.00	0.13	0.00	0.13	0.01	0.00	0.01	3.9	0.00	0.00	4.1
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Concrete	16	16	0.1	0.00	0.01	0.01	0.00	0.03	0.00	0.03	0.00	0.00	0.00	1.1	0.00	0.00	1.1
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** Heavy Duty-Mix (50% MHDT/50% HHDT); **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 1

VENDOR TRUCKS (OFFSITE)

											Running Emission Factor (g/mile)[1,2]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Concrete	-	-	10.2	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Concrete	-	-	10.2	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Concrete	24	48	10.2	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Concrete	-	-	10.2	0.01	0.79	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1182.1	0.00	0.19
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Concrete	-	-	10.2	0.01	0.78	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1171.5	0.00	0.18
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Concrete	-	-	10.2	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Concrete	-	-	10.2	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CI	6/1/2032	3/31/2035	5	739	10	2032	Concrete	8	16	10.2	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assen	4/1/2035	8/31/2035	5	110	10	2035	Concrete	-	-	10.2	0.01	0.79	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1182.1	0.00	0.19
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	9/1/2035	10/31/2035	5	43	10	2035	Concrete	-	-	10.2	0.01	0.79	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1182.1	0.00	0.19
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Concrete	-	-	10.2	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Concrete	-	-	10.2	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	2032	Concrete	4	8	10.2	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	9/1/2033	10/31/2035	5	565	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Concrete	-	-	10.2	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Concrete	-	-	10.2	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CI	8/1/2032	5/31/2033	5	217	10	2032	Concrete	14	28	10.2	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assen	5/1/2033	10/31/2033	5	131	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	10.2	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	10.2	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Concrete	2	4	10.2	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	10.2	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	10.2	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete	2	4	10.2	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	10.2	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	10.2	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Concrete	2	4	10.2	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Concrete	-	-	10.2	0.01	0.81	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1192.3	0.00	0.19
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Concrete	-	-	10.2	0.01	0.81	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1192.3	0.00	0.19
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	10.2	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	10.2	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Concrete	2	4	10.2	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	10.2	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	10.2	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete	2	4	10.2	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	10.2	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	10.2	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	2032	Concrete	2	4	10.2	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	2032	Concrete	-	-	10.2	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	11/1/2032	12/31/2034	5	565	10	2032	Concrete	-	-	10.2	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	10.2	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	10.2	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete	2	4	10.2	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	10.2	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	10.2	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Concrete	2	4	10.2	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19

Sepulveda Transit Corridor Project - ALTERNATIVE 1

VENDOR TRUCKS (OFFSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Non-Running Emission Factor (g/trip)[1,3] ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Concrete	-	-	10.2	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Concrete	-	-	10.2	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.43	0.01	0.07
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Concrete	24	48	10.2	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Concrete	-	-	10.2	0.19	4.12	3.05	0.00	-	0.00	0.00	-	0.00	0.00	445.53	0.01	0.07
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Concrete	-	-	10.2	0.19	4.09	3.07	0.00	-	0.00	0.00	-	0.00	0.00	444.38	0.01	0.07
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Concrete	-	-	10.2	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Concrete	-	-	10.2	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.43	0.01	0.07
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CI	6/1/2032	3/31/2035	5	739	10	2032	Concrete	8	16	10.2	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assen	4/1/2035	8/31/2035	5	110	10	2035	Concrete	-	-	10.2	0.19	4.12	3.05	0.00	-	0.00	0.00	-	0.00	0.00	445.53	0.01	0.07
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	9/1/2035	10/31/2035	5	43	10	2035	Concrete	-	-	10.2	0.19	4.12	3.05	0.00	-	0.00	0.00	-	0.00	0.00	445.53	0.01	0.07
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Concrete	-	-	10.2	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Concrete	-	-	10.2	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.43	0.01	0.07
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	2032	Concrete	4	8	10.2	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	9/1/2033	10/31/2035	5	565	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Concrete	-	-	10.2	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Concrete	-	-	10.2	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.43	0.01	0.07
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CI	8/1/2032	5/31/2033	5	217	10	2032	Concrete	14	28	10.2	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assen	5/1/2033	10/31/2033	5	131	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	10.2	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	10.2	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.60	0.01	0.07
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Concrete	2	4	10.2	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	10.2	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	10.2	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.60	0.01	0.07
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete	2	4	10.2	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	10.2	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	10.2	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.60	0.01	0.07
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Concrete	2	4	10.2	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Concrete	-	-	10.2	0.19	4.15	3.04	0.00	-	0.00	0.00	-	0.00	0.00	447.64	0.01	0.07
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Concrete	-	-	10.2	0.19	4.15	3.04	0.00	-	0.00	0.00	-	0.00	0.00	447.64	0.01	0.07
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	10.2	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	10.2	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.60	0.01	0.07
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Concrete	2	4	10.2	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	10.2	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	10.2	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.60	0.01	0.07
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete	2	4	10.2	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	10.2	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	10.2	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.60	0.01	0.07
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	2032	Concrete	2	4	10.2	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	2032	Concrete	-	-	10.2	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	11/1/2032	12/31/2034	5	565	10	2032	Concrete	-	-	10.2	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	10.2	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	10.2	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.60	0.01	0.07
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete	2	4	10.2	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	10.2	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	10.2	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.60	0.01	0.07
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Concrete	2	4	10.2	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07

Sepulveda Transit Corridor Project - ALTERNATIVE 1

VENDOR TRUCKS (OFFSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Daily Emissions (lb/day)													
											ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Concrete	24	48	10.2	0.03	1.35	0.37	0.01	0.42	0.02	0.43	0.11	0.02	0.13	1359.6	0.00	0.21
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CI	6/1/2032	3/31/2035	5	739	10	2032	Concrete	8	16	10.2	0.01	0.45	0.12	0.00	0.14	0.01	0.14	0.04	0.01	0.04	453.2	0.00	0.07
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assen	4/1/2035	8/31/2035	5	110	10	2035	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	9/1/2035	10/31/2035	5	43	10	2035	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	2032	Concrete	4	8	10.2	0.00	0.23	0.06	0.00	0.07	0.00	0.07	0.02	0.00	0.02	226.6	0.00	0.04
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	9/1/2033	10/31/2035	5	565	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CI	8/1/2032	5/31/2033	5	217	10	2032	Concrete	14	28	10.2	0.02	0.79	0.21	0.01	0.24	0.01	0.25	0.06	0.01	0.07	793.1	0.00	0.12
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assen	5/1/2033	10/31/2033	5	131	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Concrete	2	4	10.2	0.00	0.11	0.03	0.00	0.03	0.00	0.04	0.01	0.00	0.01	113.3	0.00	0.02
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete	2	4	10.2	0.00	0.11	0.03	0.00	0.03	0.00	0.04	0.01	0.00	0.01	113.3	0.00	0.02
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Concrete	2	4	10.2	0.00	0.11	0.03	0.00	0.03	0.00	0.04	0.01	0.00	0.01	113.3	0.00	0.02
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Concrete	2	4	10.2	0.00	0.11	0.03	0.00	0.03	0.00	0.04	0.01	0.00	0.01	113.3	0.00	0.02
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete	2	4	10.2	0.00	0.11	0.03	0.00	0.03	0.00	0.04	0.01	0.00	0.01	113.3	0.00	0.02
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	2032	Concrete	2	4	10.2	0.00	0.11	0.03	0.00	0.03	0.00	0.04	0.01	0.00	0.01	113.3	0.00	0.02
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	2032	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	11/1/2032	12/31/2034	5	565	10	2032	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete	2	4	10.2	0.00	0.11	0.03	0.00	0.03	0.00	0.04	0.01	0.00	0.01	113.3	0.00	0.02
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Concrete	2	4	10.2	0.00	0.11	0.03	0.00	0.03	0.00	0.04	0.01	0.00	0.01	113.3	0.00	0.02
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 1

VENDOR TRUCKS (OFFSITE)

											Total Emissions (tons)											Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Concrete	24	48	10.2	0.01	0.57	0.16	0.01	0.18	0.01	0.18	0.05	0.01	0.05	522.3	0.00	0.08	546.9
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CI	6/1/2032	3/31/2035	5	739	10	2032	Concrete	8	16	10.2	0.00	0.17	0.05	0.00	0.05	0.00	0.05	0.01	0.00	0.02	151.9	0.00	0.02	159.0
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assen	4/1/2035	8/31/2035	5	110	10	2035	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	9/1/2035	10/31/2035	5	43	10	2035	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	2032	Concrete	4	8	10.2	0.00	0.03	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	24.6	0.00	0.00	25.7
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	9/1/2033	10/31/2035	5	565	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CI	8/1/2032	5/31/2033	5	217	10	2032	Concrete	14	28	10.2	0.00	0.09	0.02	0.00	0.03	0.00	0.03	0.01	0.00	0.01	78.1	0.00	0.01	81.7
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assen	5/1/2033	10/31/2033	5	131	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Concrete	2	4	10.2	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.2	0.00	0.00	12.8
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete	2	4	10.2	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.1	0.00	0.00	10.6
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Concrete	2	4	10.2	0.00	0.03	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	25.8	0.00	0.00	27.0
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Concrete	2	4	10.2	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	14.5	0.00	0.00	15.2
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete	2	4	10.2	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.1	0.00	0.00	10.6
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	2032	Concrete	2	4	10.2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.5	0.00	0.00	4.7
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	2032	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	11/1/2032	12/31/2034	5	565	10	2032	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete	2	4	10.2	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.1	0.00	0.00	10.6
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Concrete	2	4	10.2	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.2	0.00	0.00	12.8
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 1

VENDOR TRUCKS (OFFSITE)

										Running Emission Factor (g/mile)[1,2]													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Concrete	-	-	10.2	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 2-Wilshire Blvd-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Concrete	2	4	10.2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Concrete	-	-	10.2	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 3-Sunset Onramp-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Concrete	2	4	10.2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Concrete	-	-	10.2	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Concrete	2	4	10.2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Concrete	-	-	10.2	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Concrete	2	4	10.2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Concrete	-	-	10.2	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Concrete	2	4	10.2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Concrete	-	-	10.2	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Concrete	52	104	10.2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Concrete	-	-	10.2	0.01	0.81	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1192.3	0.00	0.19
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Concrete	-	-	10.2	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	2033	Concrete	2	4	10.2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	2034	Concrete	-	-	10.2	0.01	0.81	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1192.3	0.00	0.19
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	2035	Concrete	-	-	10.2	0.01	0.79	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1182.1	0.00	0.19
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Concrete	2	4	10.2	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Concrete	2	4	10.2	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Concrete	2	4	10.2	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Concrete	2	4	10.2	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Concrete	-	-	10.2	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Concrete	-	-	10.2	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Concrete	-	-	10.2	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Concrete	26	52	10.2	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Concrete	-	-	10.2	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Concrete	-	-	10.2	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Concrete	16	31	10.2	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Concrete	-	-	10.2	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Concrete	-	-	10.2	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Concrete	-	-	10.2	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate; **Fleet Mix:** Heavy Duty-Mix (50% MHDT/50% HHDT); **Fuel Type:** Diesel

2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.

3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 1

VENDOR TRUCKS (OFFSITE)

										Non-Running Emission Factor (g/trip)[1,3]													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Concrete	-	-	10.2	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 2-Wilshire Blvd-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Concrete	2	4	10.2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Concrete	-	-	10.2	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 3-Sunset Onramp-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Concrete	2	4	10.2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Concrete	-	-	10.2	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Concrete	2	4	10.2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Concrete	-	-	10.2	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Concrete	2	4	10.2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Concrete	-	-	10.2	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Concrete	2	4	10.2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Concrete	-	-	10.2	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.60	0.01	0.07
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Concrete	52	104	10.2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Concrete	-	-	10.2	0.19	4.15	3.04	0.00	-	0.00	0.00	-	0.00	0.00	447.64	0.01	0.07
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Concrete	-	-	10.2	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.60	0.01	0.07
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	2033	Concrete	2	4	10.2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	2034	Concrete	-	-	10.2	0.19	4.15	3.04	0.00	-	0.00	0.00	-	0.00	0.00	447.64	0.01	0.07
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	2035	Concrete	-	-	10.2	0.19	4.12	3.05	0.00	-	0.00	0.00	-	0.00	0.00	445.53	0.01	0.07
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Concrete	2	4	10.2	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Concrete	2	4	10.2	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Concrete	2	4	10.2	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Concrete	2	4	10.2	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Concrete	-	-	10.2	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Concrete	-	-	10.2	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.43	0.01	0.07
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Concrete	-	-	10.2	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.60	0.01	0.07
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Concrete	26	52	10.2	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Concrete	-	-	10.2	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Concrete	-	-	10.2	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Concrete	16	31	10.2	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Concrete	-	-	10.2	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.43	0.01	0.07
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Concrete	-	-	10.2	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.43	0.01	0.07
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Concrete	-	-	10.2	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.43	0.01	0.07

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate; **Fleet Mix:** Heavy Duty-Mix (50% MHDT/50% HHDT); **Fuel Type:** Diesel

2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.

3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 1

VENDOR TRUCKS (OFFSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Daily Emissions (lb/day)													
											ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Concrete	2	4	10.2	0.00	0.11	0.03	0.00	0.03	0.00	0.04	0.01	0.00	0.01	112.2	0.00	0.02
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Concrete	2	4	10.2	0.00	0.11	0.03	0.00	0.03	0.00	0.04	0.01	0.00	0.01	112.2	0.00	0.02
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Concrete	2	4	10.2	0.00	0.11	0.03	0.00	0.03	0.00	0.04	0.01	0.00	0.01	112.2	0.00	0.02
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Concrete	2	4	10.2	0.00	0.11	0.03	0.00	0.03	0.00	0.04	0.01	0.00	0.01	112.2	0.00	0.02
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Concrete	2	4	10.2	0.00	0.11	0.03	0.00	0.03	0.00	0.04	0.01	0.00	0.01	112.2	0.00	0.02
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Concrete	52	104	10.2	0.06	2.88	0.80	0.03	0.90	0.04	0.94	0.24	0.03	0.27	2917.6	0.00	0.46
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	2033	Concrete	2	4	10.2	0.00	0.11	0.03	0.00	0.03	0.00	0.04	0.01	0.00	0.01	112.2	0.00	0.02
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	2034	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	2035	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Concrete	2	4	10.2	0.00	0.12	0.03	0.00	0.03	0.00	0.04	0.01	0.00	0.01	116.9	0.00	0.02
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Concrete	2	4	10.2	0.00	0.12	0.03	0.00	0.03	0.00	0.04	0.01	0.00	0.01	116.9	0.00	0.02
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Concrete	2	4	10.2	0.00	0.12	0.03	0.00	0.03	0.00	0.04	0.01	0.00	0.01	116.9	0.00	0.02
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Concrete	2	4	10.2	0.00	0.12	0.03	0.00	0.03	0.00	0.04	0.01	0.00	0.01	116.9	0.00	0.02
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Concrete	26	52	10.2	0.03	1.46	0.40	0.01	0.45	0.02	0.47	0.12	0.02	0.14	1472.9	0.00	0.23
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Concrete	16	31	10.2	0.02	0.92	0.24	0.01	0.27	0.01	0.28	0.07	0.01	0.08	909.0	0.00	0.14
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate; **Fleet Mix:** Heavy Duty-Mix (50% MHDT/50% HHDT); **Fuel Type:** Diesel

2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.

3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 1

VENDOR TRUCKS (OFFSITE)

											Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Concrete	2	4	10.2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.2	0.00	0.00	2.3
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Concrete	2	4	10.2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.2	0.00	0.00	2.3
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Concrete	2	4	10.2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.2	0.00	0.00	2.3
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Concrete	2	4	10.2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.2	0.00	0.00	2.3
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Concrete	2	4	10.2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.2	0.00	0.00	2.3
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Concrete	52	104	10.2	0.00	0.06	0.02	0.00	0.02	0.00	0.02	0.01	0.00	0.01	58.2	0.00	0.01	61.0
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	2033	Concrete	2	4	10.2	0.00	0.02	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	15.5	0.00	0.00	16.3
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	2034	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	2035	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Concrete	2	4	10.2	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.8	0.00	0.00	6.1
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Concrete	2	4	10.2	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.2	0.00	0.00	8.6
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Concrete	2	4	10.2	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.8	0.00	0.00	6.1
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Concrete	2	4	10.2	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.2	0.00	0.00	8.6
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Concrete	26	52	10.2	0.00	0.18	0.05	0.00	0.05	0.00	0.06	0.01	0.00	0.02	160.3	0.00	0.03	167.9
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Concrete	16	31	10.2	0.00	0.05	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	44.1	0.00	0.01	46.2
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate; **Fleet Mix:** Heavy Duty-Mix (50% MHDT/50% HHDT); **Fuel Type:** Diesel

2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.

3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 1

WATER TRUCKS (ONSITE)

											Running Emission Factor (g/mile)[1,2,4]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Water	3	3	0.1	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Water	3	3	0.1	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Water	3	3	0.1	0.02	2.76	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1639.3	0.00	0.26
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Water	3	3	0.1	0.02	2.73	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1623.6	0.00	0.26
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Water	3	3	0.1	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CI	6/1/2032	3/31/2035	5	739	10	2032	Water	3	3	0.1	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assen	4/1/2035	8/31/2035	5	110	10	2035	Water	3	3	0.1	0.02	2.76	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1639.3	0.00	0.26
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	9/1/2035	10/31/2035	5	43	10	2035	Water	3	3	0.1	0.02	2.76	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1639.3	0.00	0.26
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Water	3	3	0.1	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	2032	Water	3	3	0.1	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	9/1/2033	10/31/2035	5	565	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Water	3	3	0.1	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CI	8/1/2032	5/31/2033	5	217	10	2032	Water	3	3	0.1	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assen	5/1/2033	10/31/2033	5	131	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	3	0.1	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Water	3	3	0.1	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	3	0.1	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Water	3	3	0.1	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	3	0.1	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Water	3	3	0.1	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Water	3	3	0.1	0.02	2.78	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1655.8	0.00	0.26
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Water	3	3	0.1	0.02	2.78	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1655.8	0.00	0.26
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	3	0.1	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Water	3	3	0.1	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	3	0.1	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Water	3	3	0.1	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	3	0.1	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	2032	Water	3	3	0.1	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	2032	Water	3	3	0.1	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	11/1/2032	12/31/2034	5	565	10	2032	Water	3	3	0.1	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	3	0.1	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Water	3	3	0.1	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	3	0.1	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Water	3	3	0.1	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26

Sepulveda Transit Corridor Project - ALTERNATIVE 1

WATER TRUCKS (ONSITE)

											Non-Running Emission Factor (g/trip)[1,3]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Water	3	3	0.1	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.43	0.01	0.07
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Water	3	3	0.1	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Water	3	3	0.1	0.19	4.12	3.05	0.00	-	0.00	0.00	-	0.00	0.00	445.53	0.01	0.07
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Water	3	3	0.1	0.19	4.09	3.07	0.00	-	0.00	0.00	-	0.00	0.00	444.38	0.01	0.07
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Water	3	3	0.1	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.43	0.01	0.07
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CI	6/1/2032	3/31/2035	5	739	10	2032	Water	3	3	0.1	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assen	4/1/2035	8/31/2035	5	110	10	2035	Water	3	3	0.1	0.19	4.12	3.05	0.00	-	0.00	0.00	-	0.00	0.00	445.53	0.01	0.07
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	9/1/2035	10/31/2035	5	43	10	2035	Water	3	3	0.1	0.19	4.12	3.05	0.00	-	0.00	0.00	-	0.00	0.00	445.53	0.01	0.07
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Water	3	3	0.1	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.43	0.01	0.07
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	2032	Water	3	3	0.1	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	9/1/2033	10/31/2035	5	565	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Water	3	3	0.1	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.43	0.01	0.07
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CI	8/1/2032	5/31/2033	5	217	10	2032	Water	3	3	0.1	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assen	5/1/2033	10/31/2033	5	131	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	3	0.1	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.60	0.01	0.07
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Water	3	3	0.1	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	3	0.1	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.60	0.01	0.07
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Water	3	3	0.1	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	3	0.1	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.60	0.01	0.07
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Water	3	3	0.1	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Water	3	3	0.1	0.19	4.15	3.04	0.00	-	0.00	0.00	-	0.00	0.00	447.64	0.01	0.07
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Water	3	3	0.1	0.19	4.15	3.04	0.00	-	0.00	0.00	-	0.00	0.00	447.64	0.01	0.07
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	3	0.1	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.60	0.01	0.07
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Water	3	3	0.1	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	3	0.1	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.60	0.01	0.07
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Water	3	3	0.1	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	3	0.1	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.60	0.01	0.07
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	2032	Water	3	3	0.1	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	2032	Water	3	3	0.1	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	11/1/2032	12/31/2034	5	565	10	2032	Water	3	3	0.1	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	3	0.1	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.60	0.01	0.07
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Water	3	3	0.1	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	3	0.1	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.60	0.01	0.07
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Water	3	3	0.1	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07

Sepulveda Transit Corridor Project - ALTERNATIVE 1

WATER TRUCKS (ONSITE)

											Daily Emissions (lb/day)												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.0	0.00	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.0	0.00	0.00
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CI	6/1/2032	3/31/2035	5	739	10	2032	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assen	4/1/2035	8/31/2035	5	110	10	2035	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.0	0.00	0.00
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	9/1/2035	10/31/2035	5	43	10	2035	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.0	0.00	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	2032	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	9/1/2033	10/31/2035	5	565	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CI	8/1/2032	5/31/2033	5	217	10	2032	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assen	5/1/2033	10/31/2033	5	131	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	2032	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	2032	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	11/1/2032	12/31/2034	5	565	10	2032	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 1

WATER TRUCKS (ONSITE)

											Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Water	3	3	0.1	0.00	0.02	0.01	0.00	0.06	0.00	0.06	0.01	0.00	0.01	2.0	0.00	0.00	2.1
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	1.2	0.00	0.00	1.3
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.05	0.00	0.05	0.01	0.00	0.01	1.6	0.00	0.00	1.7
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Water	3	3	0.1	0.00	0.02	0.01	0.00	0.06	0.00	0.06	0.01	0.00	0.01	2.0	0.00	0.00	2.1
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	1.2	0.00	0.00	1.3
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CI	6/1/2032	3/31/2035	5	739	10	2032	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	1.4	0.00	0.00	1.4
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assen	4/1/2035	8/31/2035	5	110	10	2035	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.2
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	9/1/2035	10/31/2035	5	43	10	2035	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Water	3	3	0.1	0.00	0.02	0.01	0.00	0.06	0.00	0.06	0.01	0.00	0.01	2.0	0.00	0.00	2.1
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	1.2	0.00	0.00	1.3
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	2032	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.5
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.3
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	9/1/2033	10/31/2035	5	565	10	2033	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.03	0.00	0.03	0.00	0.00	0.00	1.0	0.00	0.00	1.1
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Water	3	3	0.1	0.00	0.02	0.01	0.00	0.06	0.00	0.06	0.01	0.00	0.01	2.0	0.00	0.00	2.1
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	1.2	0.00	0.00	1.3
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CI	8/1/2032	5/31/2033	5	217	10	2032	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assen	5/1/2033	10/31/2033	5	131	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.3
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	1.3	0.00	0.00	1.3
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.5
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.0
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.03	0.00	0.03	0.00	0.00	0.00	0.9	0.00	0.00	1.0
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	1.3	0.00	0.00	1.3
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Water	3	3	0.1	0.00	0.01	0.00	0.00	0.03	0.00	0.03	0.00	0.00	0.00	0.8	0.00	0.00	0.8
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	1.3	0.00	0.00	1.3
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.03	0.00	0.03	0.00	0.00	0.00	0.9	0.00	0.00	1.0
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Water	3	3	0.1	0.00	0.01	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.7	0.00	0.00	0.7
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	1.3	0.00	0.00	1.3
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.5	0.00	0.00	0.6
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.6	0.00	0.00	0.6
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	1.3	0.00	0.00	1.3
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.5	0.00	0.00	0.5
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	1.3	0.00	0.00	1.3
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	2032	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	2032	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	11/1/2032	12/31/2034	5	565	10	2032	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.03	0.00	0.03	0.00	0.00	0.00	1.1	0.00	0.00	1.1
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	1.3	0.00	0.00	1.3
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.3
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.6	0.00	0.00	0.6
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	1.3	0.00	0.00	1.3
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.5
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Water	3	3	0.1	0.00	0.01	0.00	0.00	0.03	0.00	0.03	0.00	0.00	0.00	0.9	0.00	0.00	0.9

Sepulveda Transit Corridor Project - ALTERNATIVE 1

WATER TRUCKS (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	Running Emission Factor (g/mile)[1,2,4] ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Water	3	3	0.1	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 2-Wilshire Blvd-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Water	3	3	0.1	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 3-Sunset Onramp-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Water	3	3	0.1	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Water	3	3	0.1	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Water	3	3	0.1	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Water	3	3	0.1	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Water	3	3	0.1	0.02	2.78	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1655.8	0.00	0.26
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Water	3	3	0.1	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	2034	Water	3	3	0.1	0.02	2.78	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1655.8	0.00	0.26
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	2035	Water	3	3	0.1	0.02	2.76	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1639.3	0.00	0.26
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Water	3	3	0.1	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Water	3	3	0.1	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Water	3	3	0.1	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Water	3	3	0.1	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Water	3	3	0.1	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Water	3	3	0.1	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** Heavy Duty-Mix (50% MHDT/50% HHDT); **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 1

WATER TRUCKS (ONSITE)

											Non-Running Emission Factor (g/trip)[1,3]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Water	3	3	0.1	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 2-Wilshire Blvd-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Water	3	3	0.1	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 3-Sunset Onramp-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Water	3	3	0.1	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Water	3	3	0.1	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Water	3	3	0.1	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Water	3	3	0.1	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.60	0.01	0.07
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Water	3	3	0.1	0.19	4.15	3.04	0.00	-	0.00	0.00	-	0.00	0.00	447.64	0.01	0.07
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Water	3	3	0.1	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.60	0.01	0.07
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	2034	Water	3	3	0.1	0.19	4.15	3.04	0.00	-	0.00	0.00	-	0.00	0.00	447.64	0.01	0.07
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	2035	Water	3	3	0.1	0.19	4.12	3.05	0.00	-	0.00	0.00	-	0.00	0.00	445.53	0.01	0.07
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Water	3	3	0.1	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.43	0.01	0.07
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Water	3	3	0.1	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.60	0.01	0.07
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Water	3	3	0.1	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Water	3	3	0.1	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.43	0.01	0.07
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Water	3	3	0.1	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.43	0.01	0.07
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Water	3	3	0.1	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.43	0.01	0.07

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** Heavy Duty-Mix (50% MHDT/50% HHDT); **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 1

WATER TRUCKS (ONSITE)

											Daily Emissions (lb/day)												
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Hours per Workday**	**EF Year**	**Trip Type**	**Round Trips per Day**	**Daily Onsite Trips**	**One-Way Trip Length (mi)**	**ROG**	**NO_x**	**CO**	**SO_x**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**	**CO_2**	**CH_4**	**N_2O**
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
TPSS 2-Wilshire Blvd-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
TPSS 3-Sunset Onramp-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	2034	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	2035	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.0	0.00	0.00
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** Heavy Duty-Mix (50% MHDT/50% HHDT); **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 1

WATER TRUCKS (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	Total Emissions (tons) ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	Total Emissions (metric tons) CO_2	CH_4	N_2O	CO_2e
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
TPSS 2-Wilshire Blvd-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.0
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.0
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
TPSS 3-Sunset Onramp-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.0
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.0
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.0
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.0
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.0
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.0
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.0
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.0
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Water	3	3	0.1	0.00	0.01	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.7	0.00	0.00	0.8
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.3
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Water	3	3	0.1	0.00	0.01	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.7	0.00	0.00	0.8
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.6	0.00	0.00	0.6
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	2034	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	2035	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Water	3	3	0.1	0.00	0.01	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.8	0.00	0.00	0.8
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.5
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.05	0.00	0.05	0.00	0.00	0.00	1.5	0.00	0.00	1.6

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** Heavy Duty-Mix (50% MHDT/50% HHDT); **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
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Sepulveda Transit Corridor Project - ALTERNATIVE 1

WATER TRUCKS (OFFSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Running Emission Factor (g/mile)[1,2,4] ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Water	3	6	2	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Water	3	6	2	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Water	3	6	2	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Water	3	6	2	0.01	0.79	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1182.1	0.00	0.19
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Water	3	6	2	0.01	0.78	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1171.5	0.00	0.18
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Water	3	6	2	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Water	3	6	2	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH)	6/1/2032	3/31/2035	5	739	10	2032	Water	3	6	2	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembly	4/1/2035	8/31/2035	5	110	10	2035	Water	3	6	2	0.01	0.79	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1182.1	0.00	0.19
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	9/1/2035	10/31/2035	5	43	10	2035	Water	3	6	2	0.01	0.79	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1182.1	0.00	0.19
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Water	3	6	2	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Water	3	6	2	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	2032	Water	3	6	2	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	2033	Water	3	6	2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	9/1/2033	10/31/2035	5	565	10	2033	Water	3	6	2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Water	3	6	2	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Water	3	6	2	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	8/1/2032	5/31/2033	5	217	10	2032	Water	3	6	2	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	2033	Water	3	6	2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Water	3	6	2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	6	2	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	6	2	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Water	3	6	2	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Water	3	6	2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Water	3	6	2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	6	2	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	6	2	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Water	3	6	2	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Water	3	6	2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Water	3	6	2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	6	2	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	6	2	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Water	3	6	2	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Water	3	6	2	0.01	0.81	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1192.3	0.00	0.19
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Water	3	6	2	0.01	0.81	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1192.3	0.00	0.19
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	6	2	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	6	2	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Water	3	6	2	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Water	3	6	2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Water	3	6	2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	6	2	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	6	2	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Water	3	6	2	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Water	3	6	2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Water	3	6	2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	6	2	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	6	2	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	2032	Water	3	6	2	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	2032	Water	3	6	2	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	11/1/2032	12/31/2034	5	565	10	2032	Water	3	6	2	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	6	2	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	6	2	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Water	3	6	2	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Water	3	6	2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Water	3	6	2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	6	2	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	6	2	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Water	3	6	2	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Water	3	6	2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Water	3	6	2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19

Sepulveda Transit Corridor Project - ALTERNATIVE 1

WATER TRUCKS (OFFSITE)

											Non-Running Emission Factor (g/trip)[1,3]													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Water	3	6	2	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Water	3	6	2	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.43	0.01	0.07
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Water	3	6	2	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Water	3	6	2	0.19	4.12	3.05	0.00	-	0.00	0.00	-	0.00	0.00	445.53	0.01	0.07
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Water	3	6	2	0.19	4.09	3.07	0.00	-	0.00	0.00	-	0.00	0.00	444.38	0.01	0.07
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Water	3	6	2	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Water	3	6	2	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.43	0.01	0.07
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH)	6/1/2032	3/31/2035	5	739	10	2032	Water	3	6	2	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembly	4/1/2035	8/31/2035	5	110	10	2035	Water	3	6	2	0.19	4.12	3.05	0.00	-	0.00	0.00	-	0.00	0.00	445.53	0.01	0.07
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	9/1/2035	10/31/2035	5	43	10	2035	Water	3	6	2	0.19	4.12	3.05	0.00	-	0.00	0.00	-	0.00	0.00	445.53	0.01	0.07
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Water	3	6	2	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Water	3	6	2	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.43	0.01	0.07
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	2032	Water	3	6	2	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	2033	Water	3	6	2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	9/1/2033	10/31/2035	5	565	10	2033	Water	3	6	2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Water	3	6	2	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Water	3	6	2	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.43	0.01	0.07
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	8/1/2032	5/31/2033	5	217	10	2032	Water	3	6	2	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	2033	Water	3	6	2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Water	3	6	2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	6	2	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	6	2	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.60	0.01	0.07
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Water	3	6	2	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Water	3	6	2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Water	3	6	2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	6	2	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	6	2	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.60	0.01	0.07
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Water	3	6	2	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Water	3	6	2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Water	3	6	2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	6	2	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	6	2	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.60	0.01	0.07
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Water	3	6	2	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Water	3	6	2	0.19	4.15	3.04	0.00	-	0.00	0.00	-	0.00	0.00	447.64	0.01	0.07
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Water	3	6	2	0.19	4.15	3.04	0.00	-	0.00	0.00	-	0.00	0.00	447.64	0.01	0.07
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	6	2	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	6	2	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.60	0.01	0.07
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Water	3	6	2	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Water	3	6	2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Water	3	6	2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	6	2	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	6	2	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.60	0.01	0.07
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Water	3	6	2	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Water	3	6	2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Water	3	6	2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	6	2	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	6	2	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.60	0.01	0.07
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	2032	Water	3	6	2	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	2032	Water	3	6	2	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	11/1/2032	12/31/2034	5	565	10	2032	Water	3	6	2	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	6	2	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	6	2	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.60	0.01	0.07
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Water	3	6	2	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Water	3	6	2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Water	3	6	2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	6	2	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	6	2	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.60	0.01	0.07
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Water	3	6	2	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Water	3	6	2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Water	3	6	2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07

Sepulveda Transit Corridor Project - ALTERNATIVE 1

WATER TRUCKS (OFFSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Daily Emissions (lb/day)													
											ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39.4	0.00	0.01
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38.9	0.00	0.01
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38.1	0.00	0.01
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.2	0.00	0.01
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Water	3	6	2	0.00	0.07	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	36.9	0.00	0.01
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39.4	0.00	0.01
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38.9	0.00	0.01
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH)	6/1/2032	3/31/2035	5	739	10	2032	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38.1	0.00	0.01
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembly	4/1/2035	8/31/2035	5	110	10	2035	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.2	0.00	0.01
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	9/1/2035	10/31/2035	5	43	10	2035	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.2	0.00	0.01
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39.4	0.00	0.01
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38.9	0.00	0.01
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	2032	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38.1	0.00	0.01
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	2033	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.8	0.00	0.01
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	9/1/2033	10/31/2035	5	565	10	2033	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.8	0.00	0.01
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39.4	0.00	0.01
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38.9	0.00	0.01
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	8/1/2032	5/31/2033	5	217	10	2032	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38.1	0.00	0.01
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	2033	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.8	0.00	0.01
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.8	0.00	0.01
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39.4	0.00	0.01
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38.5	0.00	0.01
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38.1	0.00	0.01
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.8	0.00	0.01
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.8	0.00	0.01
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39.4	0.00	0.01
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38.5	0.00	0.01
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38.1	0.00	0.01
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.8	0.00	0.01
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.8	0.00	0.01
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39.4	0.00	0.01
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38.5	0.00	0.01
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38.1	0.00	0.01
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.5	0.00	0.01
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.5	0.00	0.01
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39.4	0.00	0.01
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38.5	0.00	0.01
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38.1	0.00	0.01
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.8	0.00	0.01
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.8	0.00	0.01
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39.4	0.00	0.01
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38.5	0.00	0.01
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38.1	0.00	0.01
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.8	0.00	0.01
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.8	0.00	0.01
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39.4	0.00	0.01
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38.5	0.00	0.01
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	2032	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38.1	0.00	0.01
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	2032	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38.1	0.00	0.01
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	11/1/2032	12/31/2034	5	565	10	2032	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38.1	0.00	0.01
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39.4	0.00	0.01
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38.5	0.00	0.01
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38.1	0.00	0.01
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.8	0.00	0.01
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.8	0.00	0.01
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39.4	0.00	0.01
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38.5	0.00	0.01
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38.1	0.00	0.01
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.8	0.00	0.01
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.8	0.00	0.01

Sepulveda Transit Corridor Project - ALTERNATIVE 1

WATER TRUCKS (OFFSITE)

											Total Emissions (tons)											Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Water	3	6	2	0.00	0.04	0.02	0.00	0.01	0.00	0.01	0.00	0.00	0.00	18.7	0.00	0.00	19.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Water	3	6	2	0.00	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.6	0.00	0.00	12.1
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Water	3	6	2	0.00	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.7	0.00	0.00	15.3
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Water	3	6	2	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.9	0.00	0.00	3.1
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Water	3	6	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.7	0.00	0.00	0.8
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Water	3	6	2	0.00	0.04	0.02	0.00	0.01	0.00	0.01	0.00	0.00	0.00	18.7	0.00	0.00	19.5
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Water	3	6	2	0.00	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.6	0.00	0.00	12.1
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH)	6/1/2032	3/31/2035	5	739	10	2032	Water	3	6	2	0.00	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.8	0.00	0.00	13.4
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembly	4/1/2035	8/31/2035	5	110	10	2035	Water	3	6	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.9	0.00	0.00	1.9
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	9/1/2035	10/31/2035	5	43	10	2035	Water	3	6	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.7	0.00	0.00	0.8
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Water	3	6	2	0.00	0.04	0.02	0.00	0.01	0.00	0.01	0.00	0.00	0.00	18.7	0.00	0.00	19.5
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Water	3	6	2	0.00	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.6	0.00	0.00	12.1
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	2032	Water	3	6	2	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.1	0.00	0.00	4.3
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	2033	Water	3	6	2	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.3	0.00	0.00	2.4
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	9/1/2033	10/31/2035	5	565	10	2033	Water	3	6	2	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.7	0.00	0.00	10.1
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Water	3	6	2	0.00	0.04	0.02	0.00	0.01	0.00	0.01	0.00	0.00	0.00	18.7	0.00	0.00	19.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Water	3	6	2	0.00	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.6	0.00	0.00	12.1
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	8/1/2032	5/31/2033	5	217	10	2032	Water	3	6	2	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.8	0.00	0.00	3.9
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	2033	Water	3	6	2	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.2	0.00	0.00	2.4
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Water	3	6	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.8	0.00	0.00	0.8
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	6	2	0.00	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.6	0.00	0.00	12.2
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	6	2	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.4	0.00	0.00	3.6
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Water	3	6	2	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.1	0.00	0.00	4.3
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Water	3	6	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.4	0.00	0.00	0.4
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Water	3	6	2	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.6	0.00	0.00	9.0
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	6	2	0.00	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.6	0.00	0.00	12.2
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	6	2	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.4	0.00	0.00	3.6
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Water	3	6	2	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.4	0.00	0.00	3.6
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Water	3	6	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.1	0.00	0.00	1.1
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Water	3	6	2	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.1	0.00	0.00	7.4
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	6	2	0.00	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.6	0.00	0.00	12.2
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	6	2	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.4	0.00	0.00	3.6
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Water	3	6	2	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.7	0.00	0.00	9.1
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Water	3	6	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.4	0.00	0.00	1.5
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Water	3	6	2	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.3	0.00	0.00	6.6
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	6	2	0.00	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.6	0.00	0.00	12.2
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	6	2	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.4	0.00	0.00	3.6
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Water	3	6	2	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.9	0.00	0.00	5.1
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Water	3	6	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.9	0.00	0.00	2.0
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Water	3	6	2	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.6	0.00	0.00	5.8
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	6	2	0.00	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.6	0.00	0.00	12.2
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	6	2	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.4	0.00	0.00	3.6
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Water	3	6	2	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.4	0.00	0.00	3.6
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Water	3	6	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.8	0.00	0.00	1.9
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Water	3	6	2	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.5	0.00	0.00	4.7
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	6	2	0.00	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.6	0.00	0.00	12.2
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	6	2	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.4	0.00	0.00	3.6
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	2032	Water	3	6	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.5	0.00	0.00	1.6
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	2032	Water	3	6	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.1	0.00	0.00	1.2
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	11/1/2032	12/31/2034	5	565	10	2032	Water	3	6	2	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.8	0.00	0.00	10.2
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	6	2	0.00	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.6	0.00	0.00	12.2
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	6	2	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.4	0.00	0.00	3.6
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Water	3	6	2	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.4	0.00	0.00	3.6
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Water	3	6	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.2	0.00	0.00	2.3
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Water	3	6	2	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.6	0.00	0.00	5.9
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	6	2	0.00	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.6	0.00	0.00	12.2
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	6	2	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.4	0.00	0.00	3.6
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Water	3	6	2	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.1	0.00	0.00	4.3
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Water	3	6	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.1	0.00	0.00	1.2
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Water	3	6	2	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.2	0.00	0.00	8.6

Sepulveda Transit Corridor Project - ALTERNATIVE 1

WATER TRUCKS (OFFSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Running Emission Factor (g/mile)[1,2,4] ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Water	3	6	2	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	6	2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Water	3	6	2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 2-Wilshire Blvd-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Water	3	6	2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Water	3	6	2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	2033	Water	3	6	2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Water	3	6	2	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	6	2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Water	3	6	2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 3-Sunset Onramp-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Water	3	6	2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Water	3	6	2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	2033	Water	3	6	2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Water	3	6	2	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	6	2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Water	3	6	2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Water	3	6	2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Water	3	6	2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Water	3	6	2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Water	3	6	2	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	6	2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Water	3	6	2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Water	3	6	2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Water	3	6	2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Water	3	6	2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Water	3	6	2	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	6	2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Water	3	6	2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Water	3	6	2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Water	3	6	2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Water	3	6	2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Water	3	6	2	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	6	2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Water	3	6	2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Water	3	6	2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Water	3	6	2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Water	3	6	2	0.01	0.81	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1192.3	0.00	0.19
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Water	3	6	2	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	6	2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Water	3	6	2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	2033	Water	3	6	2	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	2034	Water	3	6	2	0.01	0.81	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1192.3	0.00	0.19
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	2035	Water	3	6	2	0.01	0.79	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1182.1	0.00	0.19
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Water	3	6	2	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Water	3	6	2	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Water	3	6	2	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Water	3	6	2	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Water	3	6	2	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Water	3	6	2	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Water	3	6	2	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Water	3	6	2	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Water	3	6	5	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Water	3	6	5	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Water	3	6	5	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Water	3	6	5	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Water	3	6	5	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Water	3	6	5	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate Speeds; **Fleet Mix:100%** HHDT); **Fuel Type:** Diesel

2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.

3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 1

WATER TRUCKS (OFFSITE)

											Non-Running Emission Factor (g/trip)[1,3]													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Water	3	6	2	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	6	2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Water	3	6	2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 2-Wilshire Blvd-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Water	3	6	2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Water	3	6	2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	2033	Water	3	6	2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Water	3	6	2	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	6	2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Water	3	6	2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 3-Sunset Onramp-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Water	3	6	2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Water	3	6	2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	2033	Water	3	6	2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Water	3	6	2	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	6	2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Water	3	6	2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Water	3	6	2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Water	3	6	2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Water	3	6	2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Water	3	6	2	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	6	2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Water	3	6	2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Water	3	6	2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Water	3	6	2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Water	3	6	2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Water	3	6	2	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	6	2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Water	3	6	2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Water	3	6	2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Water	3	6	2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Water	3	6	2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Water	3	6	2	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.60	0.01	0.07
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	6	2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Water	3	6	2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Water	3	6	2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Water	3	6	2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Water	3	6	2	0.19	4.15	3.04	0.00	-	0.00	0.00	-	0.00	0.00	447.64	0.01	0.07
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Water	3	6	2	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.60	0.01	0.07
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	6	2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Water	3	6	2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	2033	Water	3	6	2	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.32	0.01	0.07
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	2034	Water	3	6	2	0.19	4.15	3.04	0.00	-	0.00	0.00	-	0.00	0.00	447.64	0.01	0.07
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	2035	Water	3	6	2	0.19	4.12	3.05	0.00	-	0.00	0.00	-	0.00	0.00	445.53	0.01	0.07
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Water	3	6	2	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Water	3	6	2	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Water	3	6	2	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Water	3	6	2	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Water	3	6	2	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Water	3	6	2	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.43	0.01	0.07
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Water	3	6	2	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.60	0.01	0.07
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Water	3	6	2	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.60	0.01	0.07
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Water	3	6	5	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Water	3	6	5	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Water	3	6	5	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.25	0.01	0.07
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Water	3	6	5	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.43	0.01	0.07
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Water	3	6	5	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.43	0.01	0.07
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Water	3	6	5	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.43	0.01	0.07

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate Speeds; **Fleet Mix:100%** HHDT); **Fuel Type:** Diesel

2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.

3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 1

WATER TRUCKS (OFFSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Daily Emissions (lb/day)													
											ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38.1	0.00	0.01
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.8	0.00	0.01
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.8	0.00	0.01
TPSS 2-Wilshire Blvd-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.8	0.00	0.01
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.8	0.00	0.01
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	2033	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.8	0.00	0.01
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38.1	0.00	0.01
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.8	0.00	0.01
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.8	0.00	0.01
TPSS 3-Sunset Onramp-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.8	0.00	0.01
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.8	0.00	0.01
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	2033	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.8	0.00	0.01
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38.1	0.00	0.01
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.8	0.00	0.01
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.8	0.00	0.01
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.8	0.00	0.01
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.8	0.00	0.01
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.8	0.00	0.01
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38.1	0.00	0.01
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.8	0.00	0.01
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.8	0.00	0.01
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.8	0.00	0.01
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.8	0.00	0.01
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.8	0.00	0.01
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38.1	0.00	0.01
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.8	0.00	0.01
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.8	0.00	0.01
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.8	0.00	0.01
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.8	0.00	0.01
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.8	0.00	0.01
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38.5	0.00	0.01
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.8	0.00	0.01
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.8	0.00	0.01
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.8	0.00	0.01
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.8	0.00	0.01
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.5	0.00	0.01
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38.5	0.00	0.01
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.8	0.00	0.01
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.8	0.00	0.01
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	2033	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.8	0.00	0.01
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	2034	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.5	0.00	0.01
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	2035	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.2	0.00	0.01
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39.4	0.00	0.01
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39.4	0.00	0.01
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39.4	0.00	0.01
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39.4	0.00	0.01
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39.4	0.00	0.01
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38.9	0.00	0.01
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38.5	0.00	0.01
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Water	3	6	2	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38.1	0.00	0.01
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Water	3	6	5	0.00	0.12	0.04	0.00	0.03	0.00	0.03	0.01	0.00	0.01	89.1	0.00	0.01
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Water	3	6	5	0.00	0.12	0.04	0.00	0.03	0.00	0.03	0.01	0.00	0.01	89.1	0.00	0.01
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Water	3	6	5	0.00	0.12	0.04	0.00	0.03	0.00	0.03	0.01	0.00	0.01	89.1	0.00	0.01
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Water	3	6	5	0.00	0.11	0.04	0.00	0.03	0.00	0.03	0.01	0.00	0.01	88.2	0.00	0.01
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Water	3	6	5	0.00	0.11	0.04	0.00	0.03	0.00	0.03	0.01	0.00	0.01	88.2	0.00	0.01
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Water	3	6	5	0.00	0.11	0.04	0.00	0.03	0.00	0.03	0.01	0.00	0.01	88.2	0.00	0.01

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate Speeds; **Fleet Mix:100%** HHDT); **Fuel Type:** Diesel
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 1

WATER TRUCKS (OFFSITE)

											Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Water	3	6	2	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.0	0.00	0.00	3.2
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	6	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.1	0.00	0.00	1.1
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Water	3	6	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.7	0.00	0.00	0.8
TPSS 2-Wilshire Blvd-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Water	3	6	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.7	0.00	0.00	0.8
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Water	3	6	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.4	0.00	0.00	0.4
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	2033	Water	3	6	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.4	0.00	0.00	0.4
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Water	3	6	2	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.0	0.00	0.00	3.2
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	6	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.1	0.00	0.00	1.1
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Water	3	6	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.7	0.00	0.00	0.8
TPSS 3-Sunset Onramp-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Water	3	6	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.7	0.00	0.00	0.8
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Water	3	6	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.4	0.00	0.00	0.4
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	2033	Water	3	6	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.4	0.00	0.00	0.4
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Water	3	6	2	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.0	0.00	0.00	3.2
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	6	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.1	0.00	0.00	1.1
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Water	3	6	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.7	0.00	0.00	0.8
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Water	3	6	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.7	0.00	0.00	0.8
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Water	3	6	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.4	0.00	0.00	0.4
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Water	3	6	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.4	0.00	0.00	0.4
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Water	3	6	2	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.0	0.00	0.00	3.2
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	6	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.1	0.00	0.00	1.1
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Water	3	6	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.7	0.00	0.00	0.8
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Water	3	6	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.7	0.00	0.00	0.8
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Water	3	6	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.4	0.00	0.00	0.4
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Water	3	6	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.4	0.00	0.00	0.4
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Water	3	6	2	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.0	0.00	0.00	3.2
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	6	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.1	0.00	0.00	1.1
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Water	3	6	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.7	0.00	0.00	0.8
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Water	3	6	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.7	0.00	0.00	0.8
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Water	3	6	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.4	0.00	0.00	0.4
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Water	3	6	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.4	0.00	0.00	0.4
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Water	3	6	2	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.9	0.00	0.00	7.2
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	6	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.1	0.00	0.00	1.1
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Water	3	6	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.1	0.00	0.00	1.2
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Water	3	6	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.8	0.00	0.00	0.8
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Water	3	6	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.2	0.00	0.00	2.3
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Water	3	6	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.7	0.00	0.00	0.8
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Water	3	6	2	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.9	0.00	0.00	7.2
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	6	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.1	0.00	0.00	1.1
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Water	3	6	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.1	0.00	0.00	1.2
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	2033	Water	3	6	2	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.2	0.00	0.00	5.5
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	2034	Water	3	6	2	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.6	0.00	0.00	2.7
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	2035	Water	3	6	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.7	0.00	0.00	0.8
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Water	3	6	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.0	0.00	0.00	2.1
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Water	3	6	2	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.8	0.00	0.00	2.9
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Water	3	6	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.0	0.00	0.00	2.1
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Water	3	6	2	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.8	0.00	0.00	2.9
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Water	3	6	2	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.0	0.00	0.00	7.3
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Water	3	6	2	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.9	0.00	0.00	4.0
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Water	3	6	2	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.4	0.00	0.00	3.6
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Water	3	6	2	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.2	0.00	0.00	4.3
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Water	3	6	5	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.3	0.00	0.00	5.5
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Water	3	6	5	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.4	0.00	0.00	4.7
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Water	3	6	5	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.3	0.00	0.00	4.5
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Water	3	6	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.7	0.00	0.00	1.8
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Water	3	6	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.6	0.00	0.00	2.8
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Water	3	6	5	0.00	0.04	0.02	0.00	0.01	0.00	0.01	0.00	0.00	0.00	31.3	0.00	0.00	32.8

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate Speeds; **Fleet Mix:100%** HHDT); **Fuel Type:** Diesel
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 1

ARCHITECTURAL COATINGS-NON-RESIDENTIAL BUILDINGS (ONSITE)

									Non-Residential Interior						Non-Residential Exterior							
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	Coating Type	Building Area (SF)	VOC Content (g/L)	Interior EF (lb VOC/SF)	Fraction of Surface Area	Surface Area Factor	Interior Surface Area (SF)	Interior Emissions (lbs)	VOC Content (g/L)	Exterior EF (lb VOC/SF)	Fraction of Surface Area	Surface Area Factor	Exterior Surface Area (SF)	Exterior Emissions (lbs)	Total ROG Emissions (tons)	Daily ROG Emissions (lb/day)
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH)	6/1/2032	3/31/2035	5	739	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembly	4/1/2035	8/31/2035	5	110	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	9/1/2035	10/31/2035	5	43	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	9/1/2033	10/31/2035	5	565	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	8/1/2032	5/31/2033	5	217	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	11/1/2032	12/31/2034	5	565	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
TPSS 2-Wilshire Blvd-Concrete Work	6/1/2033	7/31/2033	5	43	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	Non-Residential	4375	100	0.00464	75%	2.0	6562.5	30.4	100	0.00464	25%	2.0	2187.5	10.1	0.0	1.8
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 1

ARCHITECTURAL COATINGS-NON-RESIDENTIAL BUILDINGS (ONSITE)

								Non-Residential Interior						Non-Residential Exterior							
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	Coating Type	Building Area (SF)	VOC Content (g/L)	Interior EF (lb VOC/SF)	Fraction of Surface Area	Surface Area Factor	Interior Surface Area (SF)	Interior Emissions (lbs)	VOC Content (g/L)	Exterior EF (lb VOC/SF)	Fraction of Surface Area	Surface Area Factor	Exterior Surface Area (SF)	Exterior Emissions (lbs)	Total ROG Emissions (tons)	Daily ROG Emissions (lb/day)
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
TPSS 3-Sunset Onramp-Concrete Work	6/1/2033	7/31/2033	5	43	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	Non-Residential	4375	100	0.00464	75%	2.0	6562.5	30.4	100	0.00464	25%	2.0	2187.5	10.1	0.0	1.8
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	Non-Residential	4375	100	0.00464	75%	2.0	6562.5	30.4	100	0.00464	25%	2.0	2187.5	10.1	0.0	1.8
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	Non-Residential	4375	100	0.00464	75%	2.0	6562.5	30.4	100	0.00464	25%	2.0	2187.5	10.1	0.0	1.8
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	Non-Residential	2325	100	0.00464	75%	2.0	3487.5	16.2	100	0.00464	25%	2.0	1162.5	5.4	0.0	0.9
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	Non-Residential	81000	100	0.00464	75%	2.0	121500.0	563.3	100	0.00464	25%	2.0	40500.0	187.8	0.4	5.8
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	Non-Residential	45000	100	0.00464	75%	2.0	67500.0	312.9	100	0.00464	25%	2.0	22500.0	104.3	0.2	2.8
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	Non-Residential	20000	100	0.00464	75%	2.0	30000.0	139.1	100	0.00464	25%	2.0	10000.0	46.4	0.1	1.7
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-

Notes:

1. VOC content values based on CalEEMod default values.
2. Emissions calculated in accordance with CalEEMod methodology.

Sepulveda Transit Corridor Project - ALTERNATIVE 1

ARCHITECTURAL COATINGS-PARKING (ONSITE)

								Parking Paved Area					
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Hours per Workday**	**Coating Type**	**Parking Area (SF)**	**VOC Content (g/L)**	**Parking EF (lb VOC/SF)**	**% of Parking Area Painted**	**Parking Area to Be Painted (SF)**	**Total ROG Emissions (tons)**	**Daily ROG Emissions (lb/day)**
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Parking	-	100	0.00464	6%	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Parking	-	100	0.00464	6%	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	Parking	-	100	0.00464	6%	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	Parking	-	100	0.00464	6%	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	Parking	-	100	0.00464	6%	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Parking	-	100	0.00464	6%	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Parking	-	100	0.00464	6%	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CID	6/1/2032	3/31/2035	5	739	10	Parking	-	100	0.00464	6%	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assemb	4/1/2035	8/31/2035	5	110	10	Parking	-	100	0.00464	6%	-	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	9/1/2035	10/31/2035	5	43	10	Parking	-	100	0.00464	6%	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Parking	-	100	0.00464	6%	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Parking	-	100	0.00464	6%	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	Parking	-	100	0.00464	6%	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	Parking	-	100	0.00464	6%	-	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	9/1/2033	10/31/2035	5	565	10	Parking	-	100	0.00464	6%	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Parking	-	100	0.00464	6%	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Parking	-	100	0.00464	6%	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CID	8/1/2032	5/31/2033	5	217	10	Parking	-	100	0.00464	6%	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assemb	5/1/2033	10/31/2033	5	131	10	Parking	-	100	0.00464	6%	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	Parking	-	100	0.00464	6%	-	-	-
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Parking	-	100	0.00464	6%	-	-	-
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Parking	-	100	0.00464	6%	-	-	-
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Parking	-	100	0.00464	6%	-	-	-
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	Parking	-	100	0.00464	6%	-	-	-
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	Parking	-	100	0.00464	6%	-	-	-
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Parking	-	100	0.00464	6%	-	-	-
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Parking	-	100	0.00464	6%	-	-	-
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Parking	-	100	0.00464	6%	-	-	-
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	Parking	-	100	0.00464	6%	-	-	-
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	Parking	-	100	0.00464	6%	-	-	-
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Parking	-	100	0.00464	6%	-	-	-
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Parking	-	100	0.00464	6%	-	-	-
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	Parking	-	100	0.00464	6%	-	-	-
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	Parking	-	100	0.00464	6%	-	-	-
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	Parking	-	100	0.00464	6%	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Parking	-	100	0.00464	6%	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Parking	-	100	0.00464	6%	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	Parking	-	100	0.00464	6%	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	Parking	-	100	0.00464	6%	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	Parking	-	100	0.00464	6%	-	-	-
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Parking	-	100	0.00464	6%	-	-	-
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Parking	-	100	0.00464	6%	-	-	-
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Parking	-	100	0.00464	6%	-	-	-
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	Parking	-	100	0.00464	6%	-	-	-
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	Parking	-	100	0.00464	6%	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Parking	-	100	0.00464	6%	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Parking	-	100	0.00464	6%	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	Parking	-	100	0.00464	6%	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	Parking	-	100	0.00464	6%	-	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	11/1/2032	12/31/2034	5	565	10	Parking	-	100	0.00464	6%	-	-	-
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Parking	-	100	0.00464	6%	-	-	-
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Parking	-	100	0.00464	6%	-	-	-
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Parking	-	100	0.00464	6%	-	-	-
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	Parking	-	100	0.00464	6%	-	-	-
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	Parking	-	100	0.00464	6%	-	-	-
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Parking	-	100	0.00464	6%	-	-	-
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Parking	-	100	0.00464	6%	-	-	-
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Parking	-	100	0.00464	6%	-	-	-
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	Parking	-	100	0.00464	6%	-	-	-
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	Parking	-	100	0.00464	6%	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 1

ARCHITECTURAL COATINGS-PARKING (ONSITE)

							Parking Paved Area						
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Hours per Workday**	**Coating Type**	**Parking Area (SF)**	**VOC Content (g/L)**	**Parking EF (lb VOC/SF)**	**% of Parking Area Painted**	**Parking Area to Be Painted (SF)**	**Total ROG Emissions (tons)**	**Daily ROG Emissions (lb/day)**
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Parking	-	100	0.00464	6%	-	-	-
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Parking	-	100	0.00464	6%	-	-	-
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Parking	-	100	0.00464	6%	-	-	-
TPSS 2-Wilshire Blvd-Concrete Work	6/1/2033	7/31/2033	5	43	10	Parking	-	100	0.00464	6%	-	-	-
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	Parking	-	100	0.00464	6%	-	-	-
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	Parking	-	100	0.00464	6%	-	-	-
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Parking	-	100	0.00464	6%	-	-	-
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Parking	-	100	0.00464	6%	-	-	-
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Parking	-	100	0.00464	6%	-	-	-
TPSS 3-Sunset Onramp-Concrete Work	6/1/2033	7/31/2033	5	43	10	Parking	-	100	0.00464	6%	-	-	-
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	Parking	-	100	0.00464	6%	-	-	-
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	Parking	-	100	0.00464	6%	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Parking	-	100	0.00464	6%	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Parking	-	100	0.00464	6%	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Parking	-	100	0.00464	6%	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	Parking	-	100	0.00464	6%	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	Parking	-	100	0.00464	6%	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	Parking	-	100	0.00464	6%	-	-	-
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Parking	-	100	0.00464	6%	-	-	-
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Parking	-	100	0.00464	6%	-	-	-
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Parking	-	100	0.00464	6%	-	-	-
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	Parking	-	100	0.00464	6%	-	-	-
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	Parking	-	100	0.00464	6%	-	-	-
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	Parking	-	100	0.00464	6%	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Parking	-	100	0.00464	6%	-	-	-
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Parking	-	100	0.00464	6%	-	-	-
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Parking	-	100	0.00464	6%	-	-	-
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	Parking	-	100	0.00464	6%	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	Parking	-	100	0.00464	6%	-	-	-
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	Parking	-	100	0.00464	6%	-	-	-
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	Parking	-	100	0.00464	6%	-	-	-
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Parking	-	100	0.00464	6%	-	-	-
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	Parking	-	100	0.00464	6%	-	-	-
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	Parking	-	100	0.00464	6%	-	-	-
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	Parking	-	100	0.00464	6%	-	-	-
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	Parking	395000	100	0.00464	6%	23700	0.0549	2.5551
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	Parking	-	100	0.00464	6%	-	-	-
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Parking	-	100	0.00464	6%	-	-	-
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	Parking	-	100	0.00464	6%	-	-	-
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	Parking	-	100	0.00464	6%	-	-	-
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	Parking	-	100	0.00464	6%	-	-	-
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	Parking	85680	100	0.00464	6%	5141	0.0119	0.5416
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Parking	1000	100	0.00464	6%	60	0.0001	0.0025
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Parking	1000	100	0.00464	6%	60	0.0001	0.0018
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Parking	1000	100	0.00464	6%	60	0.0001	0.0025
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Parking	1000	100	0.00464	6%	60	0.0001	0.0018
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	Parking	-	100	0.00464	6%	-	-	-
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	Parking	-	100	0.00464	6%	-	-	-
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	Parking	-	100	0.00464	6%	-	-	-
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	Parking	3888000	100	0.00464	6%	233280	0.5407	4.5060
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	Parking	-	100	0.00464	6%	-	-	-
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	Parking	-	100	0.00464	6%	-	-	-
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	Parking	-	100	0.00464	6%	-	-	-
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	Parking	3000	100	0.00464	6%	180	0.0004	0.0194
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	Parking	43560	100	0.00464	6%	2614	0.0061	0.1836
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	Parking	-	100	0.00464	6%	-	-	-

Notes:

1. VOC content values based on CalEEMod default values.
2. Emissions calculated in accordance with CalEEMod methodology.

Sepulveda Transit Corridor Project - ALTERNATIVE 1

PAVING OFF-GASSING (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	Paved Area (SF)	Paved Area (Acres)	Paved Area (Acres) / day	Off-Gassing EF (lb/acre)[1]	Daily ROG Emissions (lb/day)[2]	Total ROG Emissions (tons)[2]
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	-	-	-	2.62	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	-	-	-	2.62	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	-	-	-	2.62	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	-	-	-	2.62	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	-	-	-	2.62	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	-	-	-	2.62	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	-	-	-	2.62	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH	6/1/2032	3/31/2035	5	739	10	-	-	-	2.62	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembl	4/1/2035	8/31/2035	5	110	10	-	-	-	2.62	-	-
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	9/1/2035	10/31/2035	5	43	10	-	-	-	2.62	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	-	-	-	2.62	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	-	-	-	2.62	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	6/1/2032	4/30/2033	5	239	10	-	-	-	2.62	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	3/1/2033	8/31/2033	5	132	10	-	-	-	2.62	-	-
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	9/1/2033	10/31/2035	5	565	10	-	-	-	2.62	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	-	-	-	2.62	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	-	-	-	2.62	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	-	-	-	2.62	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembl	5/1/2033	10/31/2033	5	131	10	-	-	-	2.62	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	-	-	-	2.62	-	-
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	-	-	-	2.62	-	-
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	-	-	-	2.62	-	-
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	-	-	-	2.62	-	-
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	-	-	-	2.62	-	-
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	-	-	-	2.62	-	-
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	-	-	-	2.62	-	-
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	-	-	-	2.62	-	-
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	-	-	-	2.62	-	-
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	-	-	-	2.62	-	-
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	-	-	-	2.62	-	-
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	-	-	-	2.62	-	-
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	-	-	-	2.62	-	-
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	-	-	-	2.62	-	-
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	-	-	-	2.62	-	-
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	-	-	-	2.62	-	-
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	-	-	-	2.62	-	-
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	-	-	-	2.62	-	-
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	-	-	-	2.62	-	-
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	-	-	-	2.62	-	-
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	-	-	-	2.62	-	-
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	-	-	-	2.62	-	-
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	-	-	-	2.62	-	-
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	-	-	-	2.62	-	-
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	-	-	-	2.62	-	-
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	-	-	-	2.62	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	-	-	-	2.62	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	-	-	-	2.62	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	4/1/2032	7/31/2032	5	87	10	-	-	-	2.62	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	8/1/2032	10/31/2032	5	65	10	-	-	-	2.62	-	-
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	11/1/2032	12/31/2034	5	565	10	-	-	-	2.62	-	-
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	-	-	-	2.62	-	-
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	-	-	-	2.62	-	-
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	-	-	-	2.62	-	-
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	-	-	-	2.62	-	-
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	-	-	-	2.62	-	-
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	-	-	-	2.62	-	-
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	-	-	-	2.62	-	-
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	-	-	-	2.62	-	-
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	-	-	-	2.62	-	-
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	-	-	-	2.62	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 1

PAVING OFF-GASSING (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	Paved Area (SF)	Paved Area (Acres)	Paved Area (Acres) / day	Off-Gassing EF (lb/acre)[1]	Daily ROG Emissions (lb/day)[2]	Total ROG Emissions (tons)[2]
TPSS 2-Wilshire Blvd-Utility Relocation	5/1/2032	12/31/2032	5	175	10	-	-	-	2.62	-	-
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	-	-	-	2.62	-	-
TPSS 2-Wilshire Blvd-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	-	-	-	2.62	-	-
TPSS 2-Wilshire Blvd-Concrete Work	6/1/2033	7/31/2033	5	43	10	-	-	-	2.62	-	-
TPSS 2-Wilshire Blvd-Utility Work	8/1/2033	8/31/2033	5	23	10	-	-	-	2.62	-	-
TPSS 2-Wilshire Blvd-Paving	9/1/2033	9/30/2033	5	22	10	-	-	-	2.62	-	-
TPSS 3-Sunset Onramp-Utility Relocation	5/1/2032	12/31/2032	5	175	10	-	-	-	2.62	-	-
TPSS 3-Sunset Onramp-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	-	-	-	2.62	-	-
TPSS 3-Sunset Onramp-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	-	-	-	2.62	-	-
TPSS 3-Sunset Onramp-Concrete Work	6/1/2033	7/31/2033	5	43	10	-	-	-	2.62	-	-
TPSS 3-Sunset Onramp-Utility Work	8/1/2033	8/31/2033	5	23	10	-	-	-	2.62	-	-
TPSS 3-Sunset Onramp-Paving	9/1/2033	9/30/2033	5	22	10	-	-	-	2.62	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	-	-	-	2.62	-	-
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	-	-	-	2.62	-	-
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	-	-	-	2.62	-	-
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	-	-	-	2.62	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	-	-	-	2.62	-	-
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	-	-	-	2.62	-	-
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	-	-	-	2.62	-	-
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	-	-	-	2.62	-	-
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	-	-	-	2.62	-	-
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	-	-	-	2.62	-	-
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	-	-	-	2.62	-	-
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	-	-	-	2.62	-	-
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	-	-	-	2.62	-	-
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	-	-	-	2.62	-	-
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	-	-	-	2.62	-	-
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	-	-	-	2.62	-	-
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	-	-	-	2.62	-	-
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	-	-	-	2.62	-	-
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	-	-	-	2.62	-	-
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	-	-	-	2.62	-	-
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	-	-	-	2.62	-	-
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	-	-	-	2.62	-	-
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	-	-	-	2.62	-	-
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	395000	9.07	0.21	2.62	0.5525	0.0119
e-Bus OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	-	-	-	2.62	-	-
e-Bus OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	-	-	-	2.62	-	-
e-Bus OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	-	-	-	2.62	-	-
e-Bus OMSF-Building Work	7/1/2033	8/31/2034	5	305	10	-	-	-	2.62	-	-
e-Bus OMSF-Utility Work	9/1/2034	3/31/2035	5	151	10	-	-	-	2.62	-	-
e-Bus OMSF-Paving	4/1/2035	5/31/2035	5	44	10	85680	1.97	0.04	2.62	0.1171	0.0026
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	1000	0.02	0.00	2.62	0.0005	0.0000
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	1000	0.02	0.00	2.62	0.0004	0.0000
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	1000	0.02	0.00	2.62	0.0005	0.0000
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	1000	0.02	0.00	2.62	0.0004	0.0000
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	-	-	-	2.62	-	-
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	-	-	-	2.62	-	-
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	-	-	-	2.62	-	-
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	3888000	89.26	0.37	2.62	0.9744	0.1169
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	-	-	-	2.62	-	-
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	-	-	-	2.62	-	-
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	-	-	-	2.62	-	-
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	3000	0.07	0.00	2.62	0.0042	0.0001
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	43560	1.00	0.02	2.62	0.0397	0.0013
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	-	-	-	2.62	-	-

Notes:

1. Emission factor based on CalEEMod default value.
2. Emissions calculated in accordance with CalEEMod methodology.

Sepulveda Transit Corridor Project - ALTERNATIVE 1

CONCRETE BATCH PLANT FUGITIVE DUST (ONSITE)

								Batch Plant EF (lb/CY)						Daily Emissions (lb/day)						Total Emissions (tons)					
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Hours per Workday**	**Concrete Required (CY)**	**Concrete Throughput (CY/day)**	**PM_{10} Fugitive**	**PM_{10} Exhaust**	**PM_{10} Total**	**$PM_{2.5}$ Fugitive**	**$PM_{2.5}$ Exhaust**	**$PM_{2.5}$ Total**	**PM_{10} Fugitive**	**PM_{10} Exhaust**	**PM_{10} Total**	**$PM_{2.5}$ Fugitive**	**$PM_{2.5}$ Exhaust**	**$PM_{2.5}$ Total**	**PM_{10} Fugitive**	**PM_{10} Exhaust**	**PM_{10} Total**	**$PM_{2.5}$ Fugitive**	**$PM_{2.5}$ Exhaust**	**$PM_{2.5}$ Total**
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	82,459	105	0.0172	-	0.0172	0.0028	-	0.0028	1.81	-	1.81	0.29	-	0.29	0.7071	-	0.7071	0.1141	-	0.1141

	Emission Factors-Controlled (lb pollutant/CY Concrete)[5]	
Batch Plant Process	**PM_{10}**	**$PM_{2.5}$**
Aggregate Delivery to Ground Storage[1]	0.0031	5.00E-04
Sand Delivery to Ground Storage[1]	0.0007	1.13E-04
Aggregate Transfer to Conveyor[1]	0.0031	5.00E-04
Sand Transfer to Conveyor[1]	0.0007	1.13E-04
Aggregate Transfer to Elevated Storage[1]	0.0031	5.00E-04
Sand Transfer to Elevated Storage[1]	0.0007	1.13E-04
Cement Delivery to Silo[1]	0.0001	1.61E-05
Cement Supplement Delivery to Silo[1]	0.0003	4.84E-05
Weigh Hopper Loading[1]	0.0038	6.13E-04
Central Mixing[2]	0.0016	2.50E-04
Total EF	**0.0172**	**0.0028**

Uncontrolled Truck Mixing EFs[4]

PM_{10}	**$PM_{2.5}$**	**$PM_{2.5}/PM_{10}$**
0.310	0.050	16%

PM2.5 EF is 16% of PM10 EF

	lb PM10 /ton of cement and cement supplement[5]	**Conversion Factor**	**lb PM10/CY Concrete**
Central Mixer EF[3]	0.0055	0.282	0.0016

Notes:

1. USEPA 2006, AP-42-11.12 Concrete Batching, Table 11.12-6
2. USEPA 2006, AP-42-11.12 Concrete Batching, Table 11.12-2
3. USEPA 2006, AP-42-11.12-Page 11.12-9
4. USEPA 2006, AP-42-11.12 Concrete Batching, Table 11.12-3-Based on Uncontrolled EFs
5. Assuming Mixer Loading will have dust controls, thus, the EF is based on a controlled EF for mixer loading (central mix).

Sepulveda Transit Corridor Project - ALTERNATIVE 1

CONCRETE BATCH PLANT WIND BLOWN DUST FROM STORAGE PILES (ONSITE)

										Storage Pile EF (lb/acre/day)						Daily Emissions (lb/day)						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	# of Storage Piles[3]	Storage Pile Area (acres)	Storage Pile Height (ft)	Total Storage Pile Area (acres)	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	4	0.50	32	2	0.77	-	0.77	0.12	-	0.12	1.53	-	1.53	0.23	-	0.23	0.60	-	0.60	0.09	-	0.09

Wind Blown Emission Factors[1]

	PM_{10}	$PM_{2.5}$
EF (lb/day/acre)	***0.77***	***0.12***
s (silt content of material (weight %))	2.6	2.6
f (% of time the unobstructed wind speed is greater than 12 mph (5.36 m/s) at the mean pile height)[2]	7.8	7.8

Emission Factor Equations[1]

$$E_{PM10} = 0.85\ (s/1.5)\ (f/15)$$
$$E_{PM2.5} = 0.13\ (s/1.5)\ (f/15)$$

**Assuming mean pile height is equivalent to anemometer height of meteorological station.*

1. Countess Environmental, WRAP Fugitive Dust Handbook-Section 9.3

2. f for the project is based on the wind speed class distribution for the Van Nuys Meteorological Station. At this station, 7.8% of wind speeds were greater than 5.70 m/s (12.7 mph) throughout the meteorological period (2012-2016). Although f is based on wind speeds of 12 mph, the wind dataset only had categories for 5.7 m/s and greater. The meteorological site's anemometer height is approximately 10 meters (32 feet), therefore, an 'f' of 7.8% is valid for a storage pile height of up to 32 feet.

3. The number of storage piles assumes 2 piles for sand and 2 piles for coarse aggregate.

Sepulveda Transit Corridor Project - ALTERNATIVE 1

Construction Electricity Consumption-Portable Offices

Electricity Consumption for 1 Portable Office[1,2]

			Annual		Monthly	
Land Use Type	Land Use Subtype in CalEEMod	Portable Office Area (SF)	Annual Electricity Consumption per Portable Office (kWh/year)	Annual GHG Emissions per Portable Office ($MTCO_2e$/year)	Monthly Electricity Consumption per Portable Office (kWh/month)	Monthly GHG Emissions per Portable Office ($MTCO_2e$/month)
Commercial	General Office Building	720	11292.16	2.90	941.01	0.24

Construction GHG Emissions per Project Alternative[3]

Alternative	Number of Portable Offices	Monthly GHG Emissions per Portable Office ($MTCO_2e$/month)	Total Construction Duration (months)	Total GHG Emissions ($MTCO_2e$)
Alternative 1	3	0.24	90.2	65.5

Construction Electricity Consumption per Project Alternative[3]

Alternative	Number of Portable Offices	Monthly Electricity Consumption per Portable Office (kWh/month)	Total Construction Duration (months)	Total Electricity Consumption (kWh)	Total Electricity Consumption (MWh)
Alternative 1	3	941.01	90.2	254732.25	254.73

Notes:

1. CalEEMod was used to estimate electricity consumption from portable offices.
2. Monthly values estimated by dividing annual values by 12 months.
3. It was assumed each Project Alternative would have 3 portable offices used throughout the construction duration.

SF = square feet

kWh = kilowatt-hour

MWh = Megawatt-hour

$MTCO_2e$ = metric tons of carbon dioxide equivalent

Construction Localized Emissions Analysis

Alternative 1 Construction-Valley (North) Components

Maximum Daily Localized Emissions

Component ID	Component Description	Daily Emissions (lb/day)[1] NOX	CO	PM10	PM2.5
MRT Segment 1-Van Nuys Metrolink to Getty Center_5_10	MRT Aerial Guideway Alignment Construction-5 Days per week/10 Hours per day	43.1	190.6	2.9	1.3
Van Nuys MRT Station_5_10	Van Nuys MRT Station Construction-5 Days per week/10 Hours per day	5.0	23.4	0.2	0.1
Sherman Way MRT Station_5_10	Sherman Way MRT Station Construction-5 Days per week/10 Hours per day	5.0	23.4	0.2	0.1
Metro G Line MRT Station_5_10	Metro G Line MRT Station Construction-5 Days per week/10 Hours per day	5.0	23.4	0.5	0.2
Sherman Oaks-Vta Blvd MRT Station_5_10	Sherman Oaks-Vta Blvd MRT Station Construction-5 Days per week/10 Hours per day	5.0	23.4	0.5	0.2
TPSS 6-Skirball_5_10	TPSS 6-Skirball Construction-5 Days per week/10 Hours per day	4.1	13.3	2.4	1.0
TPSS 11-Raymer-Van Nuys_5_10	TPSS 11-Raymer-Van Nuys Construction-5 Days per week/10 Hours per day	4.1	13.3	2.7	1.1
OMSF_B_5_10	OMSF-Base Design Construction-5 Days per week/10 Hours per day	4.1	13.3	3.7	1.3
	Component Name	**NOX**	**CO**	**PM10**	**PM2.5**
	MRT Segment 1-Van Nuys Metrolink to Getty Center	43.1	190.6	2.9	1.3
	Van Nuys MRT Station	5.0	23.4	0.2	0.1
	Sherman Way MRT Station	5.0	23.4	0.2	0.1
	Metro G Line MRT Station	5.0	23.4	0.5	0.2
	Sherman Oaks-Vta Blvd MRT Station	5.0	23.4	0.5	0.2
	TPSS 6-Skirball	4.1	13.3	2.4	1.0
	TPSS 11-Raymer-Van Nuys	4.1	13.3	2.7	1.1
	MSF	4.1	13.3	3.7	1.3
	Components In Proximity to Each Other				
	MRT Segment 1 + Van Nuys Station + TPSS 11 + MSF	56.2	240.6	9.6	3.8
	Peak Daily Localized Emissions[2]	**56.2**	**240.6**	**9.6**	**3.8**
	SCAQMD Localized Significance Threshold[3]	114	786	7	4
	Exceeds Threshold?	No	No	Yes	No

Construction Localized Emissions Analysis
Alternative 1 Construction-Westside (South) Components

Maximum Daily Localized Emissions

Component ID	Component Description	Daily Emissions (lb/day)[1] NOX	CO	PM10	PM2.5
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange	MRT Segment 2 Construction-5 Days per week/10 Hours per day	23.1	96.9	1.1	0.5
MRT Segment 3-405-Wilshire Interchange_5_10	MRT Segment 3 Construction-5 Days per week/10 Hours per day	13.3	50.2	0.9	0.4
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line	MRT Segment 4 Construction-5 Days per week/10 Hours per day	18.4	73.6	1.4	0.4
Getty Center MRT Station_5_10	Getty Center MRT Station Construction-5 Days per week/10 Hours per day	5.0	23.4	0.3	0.2
Wilshire Blvd-Metro D Line-VA Hospital MRT Station_5_10	Wilshire Blvd-Metro D Stn Construction-5 Days per week/10 Hours per day	4.7	20.5	0.2	0.1
Santa Monica Blvd MRT Station_5_10	Santa Monica Stn Construction-5 Days per week/10 Hours per day	5.0	23.4	0.3	0.2
Exposition Blvd MRT Station_5_10	Exposition Stn Construction-5 Days per week/10 Hours per day	5.0	23.4	0.3	0.2
TPSS 2-Wilshire Blvd-Utility Relocation_5_10	TPSS 2 Construction-5 Days per week/10 Hours per day	4.1	13.3	2.4	1.0
TPSS 3-Sunset Onramp_5_10	TPSS 3 Construction-5 Days per week/10 Hours per day	4.1	13.3	2.3	1.0
TPSS 4-405-Near Getty Center on East side of 405_5_10	TPSS 4 Construction-5 Days per week/10 Hours per day	4.1	13.3	2.4	1.0
e-Bus OMSF_5_10	e-Bus MSF Construction-5 Days per week/10 Hours per day	4.1	13.3	3.3	1.2
	Component Name	**NOX**	**CO**	**PM10**	**PM2.5**
	MRT Segment 2-Getty Center to North of 405-Wilshire Interchange	23.1	96.9	1.1	0.5
	MRT Segment 3-405-Wilshire Interchange Stretch	13.3	50.2	0.9	0.4
	MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line	18.4	73.6	1.4	0.4
	Getty Center MRT Station	5.0	23.4	0.3	0.2
	Wilshire Blvd-Metro D Line-VA Hospital MRT Station	4.7	20.5	0.2	0.1
	Santa Monica Blvd MRT Station	5.0	23.4	0.3	0.2
	Exposition Blvd MRT Station	5.0	23.4	0.3	0.2
	TPSS 2-Wilshire Blvd	4.1	13.3	2.4	1.0
	TPSS 3-Sunset Onramp	4.1	13.3	2.3	1.0
	TPSS 4-405-Near Getty Center on East side of 405	4.1	13.3	2.4	1.0
	e-Bus MSF	4.1	13.3	3.3	1.2
	Components In Proximity to Each Other				
	MRT Segment 2 + MRT Segment 3 + Wilshire Blvd MRT Station + TPSS 2	45.2	180.8	4.6	2.1
	Peak Daily Localized Emissions[2]	**45.2**	**180.8**	**4.6**	**2.1**
	SCAQMD Localized Significance Threshold[4]	147	827	6	4
	Exceeds Threshold?	No	No	No	No

Notes:

1. Daily emissions for each construction component represent the contribution to the maximum daily localized emissions in the Valley or Westside.
2. Peak daily emissions are based on components in proximity to each other that may affect similar nearby receptors.
3.LST values are based on a 2-acre site with a 25-meter receptor distance in SRA 7 East San Fernando Valley.
4.LST values are based on a 2-acre site with a 25-meter receptor distance in SRA 2 Northwest Coastal LA County.

Appendix A-1.2: Alternative 1 Operational Emissions

Operations Regional and Localized Daily Criteria Pollutant Emission Summaries

Daily Regional (Onsite + Offsite) Operational AQ Emissions

Alternative 1 (2045) Compared to No Project Alternative (2045)

	Daily Emissions (lb/day)									
Source Category	**ROG**	**NO_X**	**CO**	**SO_X**	**PM_{10} Fugitive**	**PM_{10} Exhaust**	**PM_{10} Total**	**$PM_{2.5}$ Fugitive**	**$PM_{2.5}$ Exhaust**	**$PM_{2.5}$ Total**
MSF & e-Bus MSF Area Sources[1]	4.10	0.05	5.48	0.00	0.00	0.01	0.01	0.00	0.01	0.01
Stations Area Sources[2]	4.21	0.21	24.45	0.00	0.00	0.04	0.04	0.00	0.03	0.03
Mobile-VMT Analysis	8,981.75	88,873.80	622,889.24	3,484.81	406,610.91	2,045.58	408,656.49	103,488.56	1,934.81	105,423.37
Mobile-Employee Travel	1.15	2.63	16.34	0.07	8.58	0.04	8.62	2.18	0.04	2.23
Emergency Generators[3]	3.85	17.22	9.82	0.02	0.00	0.57	0.57	0.00	0.57	0.57
Alternative 1 Total Emissions	**8,995.06**	**88,893.89**	**622,945.33**	**3,484.90**	**406,619.48**	**2,046.25**	**408,665.73**	**103,490.74**	**1,935.46**	**105,426.20**
No Project Alternative Emissions[5]	8,987.16	88,927.26	623,263.93	3,486.90	406,855.50	2,046.81	408,902.31	103,550.81	1,935.97	105,486.79
Alternative 1 Net Change in Emissions	**7.91**	**-33.37**	**-318.60**	**-2.00**	**-236.01**	**-0.57**	**-236.58**	**-60.07**	**-0.52**	**-60.58**
SCAQMD Regional Significance Thresholds	55	55	550	150	N/A	N/A	150	N/A	N/A	55
Exceeds Threshold?	**No**	**No**	**No**	**No**			**No**			**No**

Notes:

MSF = Maintenance and Storage Facility

N/A = Not Applicable, no threshold for this pollutant.

1. Total emissions from main MSF and e-Bus MSF.
2. Total emissions from all stations.
3. Emergency generators were required for underground stations and at the MSF. Alternative 1 has all aerial stations and would not require emergency generators at stations, only at MSF.
4. In accordance with City of LA Municipal Code, all new buildings would be required to have all electric appliances for water and space heating, therefore no natural gas would be consumed during operations.
5. No Project Alternative emissions are related to mobile sources.

Daily Regional (Onsite + Offsite) Operational AQ Emissions

Alternative 1 (2045) Compared to Baseline (2021)

	Daily Emissions (lb/day)									
Source Category	**ROG**	**NO_X**	**CO**	**SO_X**	**PM_{10} Fugitive**	**PM_{10} Exhaust**	**PM_{10} Total**	**$PM_{2.5}$ Fugitive**	**$PM_{2.5}$ Exhaust**	**$PM_{2.5}$ Total**
MSF & e-Bus MSF Area Sources[1]	4.10	0.05	5.48	0.00	0.00	0.01	0.01	0.00	0.01	0.01
Stations Area Sources[2]	4.21	0.21	24.45	0.00	0.00	0.04	0.04	0.00	0.03	0.03
Mobile-VMT Analysis	8,981.75	88,873.80	622,889.24	3,484.81	406,610.91	2,045.58	408,656.49	103,488.56	1,934.81	105,423.37
Mobile-Employee Travel	1.15	2.63	16.34	0.07	8.58	0.04	8.62	2.18	0.04	2.23
Emergency Generators[3]	3.85	17.22	9.82	0.02	0.00	0.57	0.57	0.00	0.57	0.57
Alternative 1 Total Emissions	**8,995.06**	**88,893.89**	**622,945.33**	**3,484.90**	**406,619.48**	**2,046.25**	**408,665.73**	**103,490.74**	**1,935.46**	**105,426.20**
Baseline Emissions[6]	27,490.34	222,015.82	1,219,500.95	3,920.27	325,836.60	3,379.36	329,215.96	82,877.61	3,173.58	86,051.19
Alternative 1 Net Change in Emissions	**-18,495.28**	**-133,121.93**	**-596,555.63**	**-435.37**	**80,782.88**	**-1,333.11**	**79,449.77**	**20,613.13**	**-1,238.12**	**19,375.01**
SCAQMD Regional Significance Thresholds	55	55	550	150	N/A	N/A	150	N/A	N/A	55
Exceeds Threshold?	**No**	**No**	**No**	**No**			**Yes**			**Yes**

Notes:

MSF = Maintenance and Storage Facility

N/A = Not Applicable, no threshold for this pollutant.

1. Total emissions from main MSF and e-Bus MSF.
2. Total emissions from all stations.
3. Emergency generators were required for underground stations and at the MSF. Alternative 1 has all aerial stations and would not require emergency generators at stations, only at MSF.
4. In accordance with City of LA Municipal Code, all new buildings would be required to have all electric appliances for water and space heating, therefore no natural gas would be consumed during operations.
5. It should be noted that the exceedances for PM10 and PM2.5 are a function of increased fugitive dust emissions related directly to growth in VMT from Baseline 2019 to Future 2045. Dust emission factors for tire wear, brake wear, and paved roads stay relatively constant over the 2019-2045 timeframe compared to engine process emissions factors which drastically decrease over this same time period due to compliance with vehicle emission standards.
6. Baseline emissions are related to mobile sources.

Daily Localized (Onsite) Operational AQ Emissions

Alternative 1 (2045)

	Daily Emissions (lb/day)			
Source Category	**NO_X**	**CO**	**PM_{10} Total**	**$PM_{2.5}$ Total**
MSF & e-Bus MSF Area Sources[1]	0.05	5.48	0.01	0.01
Stations Area Sources[2]	0.21	24.45	0.04	0.03
Emergency Generators[3]	17.22	9.82	0.57	0.57
Alternative 1 Total Emissions	**17.47**	**39.75**	**0.62**	**0.61**
SCAQMD Localized Significance Thresholds[4]	172	1,434	3	2
Exceeds Threshold?	**No**	**No**	**No**	**No**

Notes:

MSF = Maintenance and Storage Facility

N/A = Not Applicable, no threshold for this pollutant.

1. Total emissions from main MSF and e-Bus MSF.

2. Total emissions from all stations.

3. Emergency generators were required for underground stations and at the MSF. Alternative 1 has all aerial stations and would not require emergency generators at stations, only at MSF.

4. The components of the alternative (MSF and stations) are located at different locations along the alternative alignment, therefore it was conservatively assumed that the total localized emissions from all components would occur within a 5-acre site, although in reality, the total acreage of all these components is far greater than 5 acres. The LSTs were developed for sites less than 5 acres, however, the LSTs were used to conduct a screening-level analysis for projects greater than 5 acres to determine if further refined analysis of local air quality impacts is required. Therefore, the LSTs for a 5-acre site were used to evaluate the alternative's local impacts. The localized analysis uses LST values based on a 5-acre site with a receptor distance of 25 meters. Also, because the components are located in different Source Receptor Areas (#2: North Coastal LA County & #7 East San Fernando Valley), the lowest LST values (i.e., strictest thresholds) between these SRAs were selected for each pollutant.

5. In accordance with City of LA Municipal Code, all new buildings would be required to have all electric appliances for water and space heating, therefore no natural gas would be consumed during operations.

6. In accordance with SCAQMD methodology, localized emissions do not include offsite sources such as mobile sources.

Localized Significance Threshold (LST) Values

		Operations LST Values for 5-Acre Site with 25 meter Receptor Distance			
Source Receptor Area (SRA) #	**SRA Name**	**NO_X**	**CO**	**PM_{10}**	**$PM_{2.5}$**
2	Northwest Coastal LA County	221	1,531	3	2
7	East San Fernando Valley	172	1,434	4	2
	Minimum LST Value	**172**	**1,434**	**3**	**2**

The components of the alternative (MSF and stations) are located at different locations along the alternative alignment, therefore it was conservatively assumed that the total localized emissions from all components would occur within a 5-acre site, although in reality, the total acreage of all these components is far greater than 5 acres. The LSTs were developed for sites less than 5 acres, however, the LSTs were used to conduct a screening-level analysis for projects greater than 5 acres to determine if further refined analysis of local air quality impacts is required. Therefore, the LSTs for a 5-acre site were used to evaluate the alternative's local impacts. The localized analysis uses LST values based on a 5-acre site with a receptor distance of 25 meters. Also, because the components are located in different Source Receptor Areas (#2: North Coastal LA County & #7 East San Fernando Valley), the lowest LST values (i.e., strictest thresholds) between these SRAs were selected for each pollutant.

Operations Annual Greenhouse Gas Emission Summaries

Annual GHG Emissions

Alternative 1 (2045) Compared to No Project Alternative (2045)

	Annual GHG Emissions ($MTCO_2e/yr$) by Component						
Source Category	**Track Alignment Electricity[1]**	**MSF/e-Bus MSF[2]**	**Stations[3]**	**VMT Analysis**	**Employee Travel**	**Amortized Construction[4]**	**Total**
Area		2.56	11.44				14.01
Electricity	2856.38	125.56	85.34				3067.28
Mobile				57154349.54	1232.24		57155581.78
Water		36.75	0.13				36.88
Waste		36.58					36.58
Refrigerants		0.05					0.05
Emergency Generators		44.82	-				44.82
Amortized Construction						2021.78	2021.78
Alternative 1 Total Emissions							57,160,803.2
No Project Alternative Emissions				**57,188,729.73**			**57,188,729.73**
Alternative 1 Net Change in Emissions							**-27,926.56**

Notes:

1. Electricity consumption values based on Energy Consumption During Operations Report (MRT.PH3.3.6.10.k.draft) Accounts for electricity consumption from all components (traction power for track alignment, stations, MSFs, e-buses, etc.).
2. Accounts for emissions related to main MSF and e-Bus MSF.
3. Accounts for emissions related to all stations.
4. Total construction emissions were amortized over the design lifetime of Alternative 1, which would be 100 years.
5. In accordance with City of LA Municipal Code, all new buildings would be required to have all electric appliances for water and space heating, therefore no natural gas would be consumed during operations.

6. No Project Alternative emissions are related to mobile sources.

Annual GHG Emissions

Alternative 1 (2045) Compared to Baseline (2021)

	Annual GHG Emissions ($MTCO_2e/yr$) by Component						
Source Category	**Track Alignment Electricity[1]**	**MSF/e-Bus MSF[2]**	**Stations[3]**	**VMT Analysis**	**Employee Travel**	**Amortized Construction[4]**	**Total**
Area		2.56	11.44				14.0
Electricity	2,856.38	125.56	85.34				3,067.3
Mobile				57,154,349.54	1,232.24		57,155,581.8
Water		36.75	0.13				36.9
Waste		36.58					36.6
Refrigerants		0.05					0.1
Emergency Generators		44.82	0.00				44.8
Amortized Construction						2,021.78	2,021.8
Alternative 1 Total Emissions							57,160,803.2
Baseline Emissions				**64,691,321.96**			**64,691,321.96**
Alternative 1 Net Change in Emissions							**-7,530,518.80**

Notes:

1. Electricity consumption values based on Energy Consumption During Operations Report (MRT.PH3.3.6.10.k.draft) Accounts for electricity consumption from all components (traction power for track alignment, stations, MSFs, e-buses, etc.).
2. Accounts for emissions related to main MSF and e-Bus MSF.
3. Accounts for emissions related to all stations.
4. Total construction emissions were amortized over the design lifetime of Alternative 1, which would be 100 years.
5. In accordance with City of LA Municipal Code, all new buildings would be required to have all electric appliances for water and space heating, therefore no natural gas would be consumed during operations.

6. Baseline emissions are related to mobile sources.

Mobile Emissions

Mobile Emissions-Alternative 1 (2045) Compared to No Project Alternative (2045)

Scenario	Analysis Year	Daily VMT	Annual VMT[2]	Daily Emissions (lb/day)												
				ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
No Project Alternative-VMT Analysis[1]	2045	568,557,200	197,289,348,400	8,987.2	88,927.3	623,263.9	3,486.9	406,855.5	2,046.8	408,902.3	103,550.8	1,936.0	105,486.8	358,320,962.1	3,957.5	16,514.6
Alternative 1-VMT Analysis[1]	2045	568,215,400	197,170,743,800	8,981.8	88,873.8	622,889.2	3,484.8	406,610.9	2,045.6	408,656.5	103,488.6	1,934.8	105,423.4	358,105,550.0	3,955.1	16,504.7
	Net Change	-341,800	-118,604,600	**-5.4**	**-53.5**	**-374.7**	**-2.1**	**-244.6**	**-1.2**	**-245.8**	**-62.3**	**-1.2**	**-63.4**	**-215,412.1**	**-2.4**	**-9.9**
Alternative 1-VMT from Employee Travel[3]	2045	11,987	4,159,420	1.2	2.6	16.3	0.1	8.6	0.04	8.6	2.2	0.04	2.2	7,706.3	0.1	0.4
Alternative 1 Net Mobile Emissions				**-4.2**	**-50.8**	**-358.3**	**-2.0**	**-236.0**	**-1.2**	**-237.2**	**-60.1**	**-1.1**	**-61.2**	**-207,705.8**	**-2.2**	**-9.5**

Notes:

VMT = vehicle miles traveled

1. Daily VMT values from Project Traffic Study.

2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.

3. Employee VMT based on number of employees, daily trips, and CalEEMod trip length for Non-Residential Home-Work Trip.

Mobile Emissions-Alternative 1 (2045) Compared to No Project Alternative (2045)				Annual Emissions (tons/year)											Annual Emissions (metric tons)			
Scenario	Analysis Year	Daily VMT	Annual VMT[2]	ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
No Project Alternative-VMT Analysis[1]	2045	568,557,200	197,289,348,400	1,559.3	15,428.9	108,136.3	605.0	70,589.4	355.1	70,944.6	17,966.1	335.9	18,302.0	56,398,551.2	622.9	2,599.3	57,188,729.7
Alternative 1-VMT Analysis[1]	2045	568,215,400	197,170,743,800	1,558.3	15,419.6	108,071.3	604.6	70,547.0	354.9	70,901.9	17,955.3	335.7	18,291.0	56,364,646.0	622.5	2,597.8	57,154,349.5
	Net Change	-341,800	-118,604,600	**-0.9**	**-9.3**	**-65.0**	**-0.4**	**-42.4**	**-0.2**	**-42.6**	**-10.8**	**-0.2**	**-11.0**	**-33,905.2**	**-0.4**	**-1.6**	**-34,380.2**
Alternative 1-VMT from Employee Travel[3]	2045	11,987	4,159,420	0.20	0.5	2.8	0.01	1.5	0.01	1.5	0.4	0.01	0.4	1,212.9	0.02	0.1	1,232.2
			Alternative 1 Net Mobile Emissions	**-0.7**	**-8.8**	**-62.2**	**-0.4**	**-40.9**	**-0.2**	**-41.2**	**-10.4**	**-0.2**	**-10.6**	**-32,692.2**	**-0.4**	**-1.5**	**-33,148.0**

Notes:

VMT = vehicle miles traveled

1. Daily VMT values from Project Traffic Study.

2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.

3. Employee VMT based on number of employees, daily trips, and CalEEMod trip length for Non-Residential Home-Work Trip.

Mobile Emissions-Alternative 1 (2045) Compared to Baseline (2021)

Scenario	Analysis Year	Daily VMT	Annual VMT[2]	Daily Emissions (lb/day)[5]												
				ROG	NO_x	CO	SO_x	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Baseline-VMT Analysis[1]	2021	456,869,300	158,533,647,100	27,490.3	222,015.8	1,219,501.0	3,920.3	325,836.6	3,379.4	329,216.0	82,877.6	3,173.6	86,051.2	405,050,918.1	11,947.9	18,987.9
Alternative 1-VMT Analysis[1]	2045	568,215,400	197,170,743,800	8,981.8	88,873.8	622,889.2	3,484.8	406,610.9	2,045.6	408,656.5	103,488.6	1,934.8	105,423.4	358,105,550.0	3,955.1	16,504.7
	Net Change[3]	111,346,100	38,637,096,700	**-18,508.6**	**-133,142.0**	**-596,611.7**	**-435.5**	**80,774.3**	**-1,333.8**	**79,440.5**	**20,610.9**	**-1,238.8**	**19,372.2**	**-46,945,368.1**	**-7,992.8**	**-2,483.2**
Alternative 1-VMT from Employee Travel[4]	2045	11,987	4,159,420	1.2	2.6	16.3	0.1	8.6	0.0	8.6	2.2	0.0	2.2	7,706.3	0.1	0.4
			Alternative 1 Net Mobile Emissions	**-18,507.4**	**-133,139.4**	**-596,595.4**	**-435.4**	**80,782.9**	**-1,333.7**	**79,449.2**	**20,613.1**	**-1,238.7**	**19,374.4**	**-46,937,661.8**	**-7,992.7**	**-2,482.8**

Notes:

VMT = vehicle miles traveled

1. Daily VMT values from Project Traffic Study.
2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
3. Increase in VMT related to growth from 2021 to 2045.
4. Employee VMT based on number of employees, daily trips, and CalEEMod trip length for Non-Residential Home-Work Trip.
5. Increase in fugitive emissions is directly related to increase in VMT. Dust emission factors for tire wear, brake wear, and paved roads stay relatively constant over the 2021-2045 timeframe compared to engine process emissions factors which drastically decrease over this same time period due to compliance with vehicle emission standards.

Mobile Emissions-Alternative 1 (2045) Compared to Baseline (2021)				Annual Emissions (tons/year)[5]										Annual Emissions (metric tons)			
Scenario	Analysis Year	Daily VMT	Annual VMT[2]	ROG	NO_x	CO	SO_x	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Baseline-VMT Analysis[1]	2021	456,869,300	158,533,647,100	4,769.6	38,519.7	211,583.4	680.2	56,532.7	586.3	57,119.0	14,379.3	550.6	14,929.9	63,753,693.9	1,880.6	2,988.6	64,691,322.0
Alternative 1-VMT Analysis[1]	2045	568,215,400	197,170,743,800	1,558.3	15,419.6	108,071.3	604.6	70,547.0	354.9	70,901.9	17,955.3	335.7	18,291.0	56,364,646.0	622.5	2,597.8	57,154,349.5
	Net Change[3]	111,346,100	38,637,096,700	**-3,211.2**	**-23,100.1**	**-103,512.1**	**-75.6**	**14,014.3**	**-231.4**	**13,782.9**	**3,576.0**	**-214.9**	**3,361.1**	**-7,389,047.9**	**-1,258.0**	**-390.9**	**-7,536,972.4**
Alternative 1-VMT from Employee Travel[4]	2045	11,987	4,159,420	0.2	0.5	2.8	0.0	1.5	0.0	1.5	0.4	0.0	0.4	1,212.9	0.0	0.1	1,232.2
			Alternative 1 Net Mobile Emissions	**-3,211.0**	**-23,099.7**	**-103,509.3**	**-75.5**	**14,015.8**	**-231.4**	**13,784.4**	**3,576.4**	**-214.9**	**3,361.5**	**-7,387,834.9**	**-1,258.0**	**-390.8**	**-7,535,740.2**

Notes:

VMT = vehicle miles traveled

1. Daily VMT values from Project Traffic Study.
2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
3. Increase in VMT related to growth from 2021 to 2045.
4. Employee VMT based on number of employees, daily trips, and CalEEMod trip length for Non-Residential Home-Work Trip.
5. Increase in fugitive emissions is directly related to increase in VMT. Dust emission factors for tire wear, brake wear, and paved roads stay relatively constant over the 2021-2045 timeframe compared to engine process emissions factors which drastically decrease over this same time period due to compliance with vehicle emission standards.

Mobile Emissions-Baseline (2021)

Alternative	Analysis Year	Daily VMT (miles/day)[1]	Days per Year[2]	Annual VMT (miles/year)	Running Emission Factor (grams/mile)[3,4]												
					ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Baseline	2021	456,869,300	347	158,533,647,100	0.0273	0.220	1.211	0.004	0.323	0.003	0.327	0.082	0.003	0.085	402.145	0.012	0.019

Notes:

1. Daily VMT values from Project Traffic Study.

2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
Source: CARB, 2008. Climate Change Draft Scoping Plan Appendices, Volume II: Analysis and Documentation.

3. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.

4. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.

5. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. CO_2 = 1; CH_4 = 25; N_2O = 298

Mobile Emissions-Baseline (2021)

Alternative	Analysis Year	Daily VMT (miles/day)[1]	Days per Year[2]	Annual VMT (miles/year)	Daily Emissions (lb/day)												
					ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Baseline	2021	456,869,300	347	158,533,647,100	27,490.3	222,015.8	1,219,501.0	3,920.3	325,836.6	3,379.4	329,216.0	82,877.6	3,173.6	86,051.2	405,050,918.1	11,947.9	18,987.9

Notes:

1. Daily VMT values from Project Traffic Study.

2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
Source: CARB, 2008. Climate Change Draft Scoping Plan Appendices, Volume II: Analysis and Documentation.

3. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.

4. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.

5. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. CO_2 = 1; CH_4 = 25; N_2O = 298

Mobile Emissions-Baseline (2021)

Alternative	Analysis Year	Daily VMT (miles/day)[1]	Days per Year[2]	Annual VMT (miles/year)	Annual Emissions (tons/year)										Annual Emissions (metric tons)[5]			
					ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Baseline	2021	456,869,300	347	158,533,647,100	4,769.6	38,519.7	211,583.4	680.2	56,532.7	586.3	57,119.0	14,379.3	550.6	14,929.9	63,753,693.9	1,880.6	2,988.6	64,691,322.0

Notes:

1. Daily VMT values from Project Traffic Study.

2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
Source: CARB, 2008. Climate Change Draft Scoping Plan Appendices, Volume II: Analysis and Documentation.

3. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.

4. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.

5. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. CO_2 = 1; CH_4 = 25; N_2O = 298

Mobile Emissions-No Project Alternative (2045)					Running Emission Factor (grams/mile)[3,4]												
Alternative	Analysis Year	Daily VMT (miles/day)[1]	Days per Year[2]	Annual VMT (miles/year)	ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
No Project	2045	568,557,200	347	197,289,348,400	0.01	0.07	0.50	0.003	0.32	0.002	0.33	0.08	0.002	0.08	285.87	0.003	0.01

Notes:

1. Daily VMT values from Project Traffic Study.
2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.

Source: CARB, 2008. Climate Change Draft Scoping Plan Appendices, Volume II: Analysis and Documentation.

3. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.
4. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
5. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. $CO_2 = 1$; $CH_4 = 25$; $N_2O = 298$

Mobile Emissions-No Project Alternative (2045)

Alternative	Analysis Year	Daily VMT (miles/day)[1]	Days per Year[2]	Annual VMT (miles/year)	Daily Emissions (lb/day)												
					ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
No Project	2045	568,557,200	347	197,289,348,400	8987.2	88927.3	623263.9	3486.9	406855.5	2046.8	408902.3	103550.8	1936.0	105486.8	358320962.1	3957.5	16514.6

Notes:

1. Daily VMT values from Project Traffic Study.
2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
   Source: CARB, 2008. Climate Change Draft Scoping Plan Appendices, Volume II: Analysis and Documentation.
3. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.
4. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
5. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. $CO_2 = 1$; $CH_4 = 25$; $N_2O = 298$

Mobile Emissions-No Project Alternative (2045)					Annual Emissions (tons/year)										Annual Emissions (metric tons)[5]			
Alternative	Analysis Year	Daily VMT (miles/day)[1]	Days per Year[2]	Annual VMT (miles/year)	ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
No Project	2045	568,557,200	347	197,289,348,400	1559.3	15428.9	108136.3	605.0	70589.4	355.1	70944.6	17966.1	335.9	18302.0	56398551.2	622.9	2599.3	57188729.7

Notes:

1. Daily VMT values from Project Traffic Study.
2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
Source: CARB, 2008. Climate Change Draft Scoping Plan Appendices, Volume II: Analysis and Documentation.
3. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.
4. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
5. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. $CO_2 = 1$; $CH_4 = 25$; $N_2O = 298$

Alternative 1 Mobile Emissions Summary (2045)

Scenario	Analysis Year	Daily VMT	Annual VMT	Daily Emissions (lb/day)												
				ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Alterantive 1[1]	2045	568,215,400	197,170,743,800	8,981.8	88,873.8	622,889.2	3,484.8	406,610.9	2,045.6	408,656.5	103,488.6	1,934.8	105,423.4	358,105,550.0	3,955.1	16,504.7
Employee Travel to MSF[2]	2045	11,987	4,159,420	1.2	2.6	16.3	0.1	8.6	0.0	8.6	2.2	0.04	2.2	7,706.3	0.1	0.4
			Total Mobile Emissions	**8,982.9**	**88,876.4**	**622,905.6**	**3,484.9**	**406,619.5**	**2,045.6**	**408,665.1**	**103,490.7**	**1,934.9**	**105,425.6**	**358,113,256.3**	**3,955.2**	**16,505.1**

Notes:

VMT = vehicle miles traveled

1. Daily VMT values from Project Traffic Study.

2. Accounts for employee trips to and from Operations Maintenace and Storage Facilities (main MSF and e-Bus MSF).

Alternative 1 Mobile Emissions Summary (2045)

Scenario	Analysis Year	Daily VMT	Annual VMT	Annual Emissions (tons/year)										Annual Emissions (metric tons)			
				ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Alterantive 1[1]	2045	568,215,400	197,170,743,800	1,558.3	15,419.6	108,071.3	604.6	70,547.0	354.9	70,901.9	17,955.3	335.7	18,291.0	56,364,646.0	622.5	2,597.8	57,154,349.5
Employee Travel to MSF[2]	2045	11,987	4,159,420	0.200	0.456	2.835	0.013	1.488	0.0077	1.496	0.379	0.0073	0.386	1,212.9	0.023	0.063	1,232.2
			Total Mobile Emissions	**1,558.5**	**15,420.1**	**108,074.1**	**604.6**	**70,548.5**	**354.9**	**70,903.4**	**17,955.6**	**335.7**	**18,291.3**	**56,365,858.9**	**622.5**	**2,597.8**	**57,155,581.8**

Notes:

VMT = vehicle miles traveled

1. Daily VMT values from Project Traffic Study.

2. Accounts for employee trips to and from Operations Maintenace and Storage Facilities (main MSF and e-Bus MSF).

Mobile Emissions-Alternative 1 VMT Analysis (2045)

Alternative	Analysis Year	Daily VMT (miles/day)[1]	Days per Year[2]	Annual VMT (miles/year)	Running Emission Factor (grams/mile)[3,4]												
					ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Alternative 1	2045	568,215,400	347	197,170,743,800	0.007	0.071	0.497	0.003	0.325	0.002	0.326	0.083	0.002	0.084	285.867	0.003	0.013

Notes:

1. Daily VMT values from Project Traffic Study.
2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
Source: CARB, 2008. Climate Change Draft Scoping Plan Appendices, Volume II: Analysis and Documentation.
3. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.
4. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
5. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. CO_2 = 1; CH_4 = 25; N_2O = 298

Mobile Emissions-Alternative 1 VMT Analysis (2045)

Alternative	Analysis Year	Daily VMT (miles/day)[1]	Days per Year[2]	Annual VMT (miles/year)	Daily Emissions (lb/day)												
					ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Alternative 1	2045	568,215,400	347	197,170,743,800	8981.8	88873.8	622889.2	3484.8	406610.9	2045.6	408656.5	103488.6	1934.8	105423.4	358105550.0	3955.1	16504.7

Notes:

1. Daily VMT values from Project Traffic Study.
2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
Source: CARB, 2008. Climate Change Draft Scoping Plan Appendices, Volume II: Analysis and Documentation.
3. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.
4. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
5. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. $CO_2 = 1$; $CH_4 = 25$; $N_2O = 298$

Mobile Emissions-Alternative 1 VMT Analysis (2045)

					Annual Emissions (tons/year)										Annual Emissions (metric tons)[5]			
Alternative	Analysis Year	Daily VMT (miles/day)[1]	Days per Year[2]	Annual VMT (miles/year)	ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Alternative 1	2045	568,215,400	347	197,170,743,800	1558.3	15419.6	108071.3	604.6	70547.0	354.9	70901.9	17955.3	335.7	18291.0	56364646.0	622.5	2597.8	57154349.5

Notes:

1. Daily VMT values from Project Traffic Study.
2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
Source: CARB, 2008. Climate Change Draft Scoping Plan Appendices, Volume II: Analysis and Documentation.
3. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.
4. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
5. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. CO_2 = 1; CH_4 = 25; N_2O = 298

Mobile Emissions-Employee Travel (2045)

Alternative	Analysis Year	Employees per day[1]	Daily One-Way Trips[2]	One-Way Trip Length (miles)[3]	Daily VMT (miles/day)	Days per Year[4]	Trips per Year	Annual VMT (miles/year)	Running Emission Factor (grams/mile)[5,6]												
									ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Alternative 1	2045	420	840	14.3	11,987	347	291,480	4,159,420	0.01	0.07	0.50	0.003	0.32	0.002	0.33	0.08	0.002	0.08	285.87	0.003	0.01

Notes:

1. Data provided by LASRE team.
2. Accounts for employee trips to and from main MSF and e-Bus MSF.
3. Trip length based on CalEEMod default value for Non-Residential Home-Work trip length for Commercial Building.
4. Annual miles and trips are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
   Source: CARB, 2008. Climate Change Draft Scoping Plan
5. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.
6. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
7. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
8. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. $CO_2 = 1$; $CH_4 = 25$; $N_2O = 298$

Mobile Emissions-Employee Travel (2045)

Alternative	Analysis Year	Employees per day[1]	Daily One-Way Trips[2]	One-Way Trip Length (miles)[3]	Daily VMT (miles/day)	Days per Year[4]	Trips per Year	Annual VMT (miles/year)	Non-Running Emission Factor (grams/trip)[5,7]												
									ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Alternative 1	2045	420	840	14.3	11,987	347	291,480	4,159,420	0.52	0.41	1.73	0.00	-	0.00	0.00	-	0.00	0.00	82.01	0.03	0.03

Notes:

1. Data provided by LASRE team.
2. Accounts for employee trips to and from main MSF and e-Bus MSF.
3. Trip length based on CalEEMod default value for Non-Residential Home-Work trip length for Commercial Building.
4. Annual miles and trips are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
Source: CARB, 2008. Climate Change Draft Scoping Plan
5. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.
6. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
7. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
8. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. CO_2 = 1; CH_4 = 25; N_2O = 298

Mobile Emissions-Employee Travel (2045)

Alternative	Analysis Year	Employees per day[1]	Daily One-Way Trips[2]	One-Way Trip Length (miles)[3]	Daily VMT (miles/day)	Days per Year[4]	Trips per Year	Annual VMT (miles/year)	Daily Emissions (lb/day)													
									ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Alternative 1	2045	420	840	14.3	11,987	347	291,480	4,159,420	1.15	2.63	16.34	0.07	8.58	0.04	8.62	2.18	0.04	2.23	7706.29	0.15	0.40

Notes:

1. Data provided by LASRE team.
2. Accounts for employee trips to and from main MSF and e-Bus MSF.
3. Trip length based on CalEEMod default value for Non-Residential Home-Work trip length for Commercial Building.
4. Annual miles and trips are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
   Source: CARB, 2008. Climate Change Draft Scoping Plan
5. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.
6. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
7. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
8. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. $CO_2 = 1$; $CH_4 = 25$; $N_2O = 298$

Mobile Emissions-Employee Travel (2045)

Alternative	Analysis Year	Employees per day[1]	Daily One-Way Trips[2]	One-Way Trip Length (miles)[3]	Daily VMT (miles/day)	Days per Year[4]	Trips per Year	Annual VMT (miles/year)	Annual Emissions (tons/year)										Annual Emissions (metric tons)[8]			
									ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Alternative 1	2045	420	840	14.3	11,987	347	291,480	4,159,420	0.200	0.456	2.835	0.013	1.488	0.008	1.496	0.379	0.007	0.386	1212.9	0.023	0.063	1232.2

Notes:

1. Data provided by LASRE team.
2. Accounts for employee trips to and from main MSF and e-Bus MSF.
3. Trip length based on CalEEMod default value for Non-Residential Home-Work trip length for Commercial Building.
4. Annual miles and trips are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
   Source: CARB, 2008. Climate Change Draft Scoping Plan
5. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.
6. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
7. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
8. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. $CO_2 = 1$; $CH_4 = 25$; $N_2O = 298$

Daily Paved Road Dust Emission Factor[1]

$$E_{ext} = [\, k\,(sL)^{0.91} \times (W)^{1.02} \,]\,(1 - P/4N)$$

Parameter	Description	Source:
E_{ext}	Annual or other long-term average emission factor in the same units as k	USEPA AP-42, Paved Roads Methodology
k	Particle size multiplier for particle size range and units of interest	CalEEMod Default Value
sL	road surface silt loading (g/m^2)	CalEEMod Default Value
W	average weight (tons) of all the vehicles raveling the road (2.4 tons)	CalEEMod Default Value
P	Number of "wet" days with at least 0.254 mm (0.01 in) of precipitation during the averaging period	Avg of CalEEMod default values for Van Nuys and Santa Monica
N	Number of days in the averaging period (e.g. 365 for annual, 91 for seasonal, 30 for monthly)	CalEEMod Default Value

Parameters	PM_{10}	$PM_{2.5}$
k (g/VMT)	1.000	0.250
sL (g/m^2)	0.1	0.1
W (tons)	2.4	2.4
P ("wet" days)[2]	19.1	19.1
N (days per year)	365	365
EF without natural dust control (precipitation) (g/mi)	3.00E-01	7.51E-02

Notes:

1. AP42, Section 13.2.1 Paved Roads, January 2011
2. Consistent with Appendix C of the CalEEMod User's Guide, daily road dust emission factors do not account for a precipitation adjustment.

MSF & e-Bus MSF Operations CalEEMod Output Report

STC Alt 1-MSF & e-Bus MSF Operations Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	STC Alt 1-MSF & e-Bus MSF Operations
Operational Year	2045
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	18.6
Location	34.16555200945753, -118.46789511210054
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	3863
EDFZ	17
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.24

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
General Office Building	81.0	1000sqft	1.61	81,000	3,515	—	—	—

Parking Lot	395	1000sqft	9.07	0.00	19,750	—	—	—
Other Non-Asphalt Surfaces	667	1000sqft	15.3	0.00	33,363	—	—	—
General Office Building	45.0	1000sqft	1.03	45,000	2,250	—	—	—
Parking Lot	85.7	1000sqft	1.97	0.00	4,284	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.17	4.10	0.05	5.48	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	106	819	925	10.7	0.10	0.31	1,224
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.19	3.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	106	796	902	10.7	0.10	0.31	1,202
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.86	3.81	0.03	3.75	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	106	812	918	10.7	0.10	0.31	1,217
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.70	0.70	0.01	0.69	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	17.6	134	152	1.77	0.02	0.05	202

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	4.17	4.10	0.05	5.48	< 0.005	0.01	—	0.01	0.01	—	0.01	—	22.5	22.5	< 0.005	< 0.005	—	22.6
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	758	758	0.00	0.00	—	758
Water	—	—	—	—	—	—	—	—	—	—	—	42.9	37.9	80.8	4.40	0.10	—	222
Waste	—	—	—	—	—	—	—	—	—	—	—	63.2	0.00	63.2	6.31	0.00	—	221
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.31	0.31
Total	4.17	4.10	0.05	5.48	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	106	819	925	10.7	0.10	0.31	1,224
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	3.19	3.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	758	758	0.00	0.00	—	758
Water	—	—	—	—	—	—	—	—	—	—	—	42.9	37.9	80.8	4.40	0.10	—	222
Waste	—	—	—	—	—	—	—	—	—	—	—	63.2	0.00	63.2	6.31	0.00	—	221
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.31	0.31
Total	3.19	3.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	106	796	902	10.7	0.10	0.31	1,202
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	3.86	3.81	0.03	3.75	< 0.005	0.01	—	0.01	0.01	—	0.01	—	15.4	15.4	< 0.005	< 0.005	—	15.5
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	758	758	0.00	0.00	—	758
Water	—	—	—	—	—	—	—	—	—	—	—	42.9	37.9	80.8	4.40	0.10	—	222

Waste	—	—	—	—	—	—	—	—	—	—	—	63.2	0.00	63.2	6.31	0.00	—	221
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.31	0.31
Total	3.86	3.81	0.03	3.75	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	106	812	918	10.7	0.10	0.31	1,217
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	0.70	0.70	0.01	0.69	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.56	2.56	< 0.005	< 0.005	—	2.56
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	126	126	0.00	0.00	—	126
Water	—	—	—	—	—	—	—	—	—	—	—	7.10	6.27	13.4	0.73	0.02	—	36.7
Waste	—	—	—	—	—	—	—	—	—	—	—	10.5	0.00	10.5	1.05	0.00	—	36.6
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.05	0.05
Total	0.70	0.70	0.01	0.69	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	17.6	134	152	1.77	0.02	0.05	202

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	657	657	0.00	0.00	—	657
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	102	102	0.00	0.00	—	102
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	758	758	0.00	0.00	—	758
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	657	657	0.00	0.00	—	657
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	102	102	0.00	0.00	—	102
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	758	758	0.00	0.00	—	758
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	109	109	0.00	0.00	—	109
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	16.8	16.8	0.00	0.00	—	16.8
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	126	126	0.00	0.00	—	126

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	2.79	2.79	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.41	0.41	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.98	0.90	0.05	5.48	< 0.005	0.01	—	0.01	0.01	—	0.01	—	22.5	22.5	< 0.005	< 0.005	—	22.6
Total	4.17	4.10	0.05	5.48	< 0.005	0.01	—	0.01	0.01	—	0.01	—	22.5	22.5	< 0.005	< 0.005	—	22.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	2.79	2.79	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.41	0.41	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	3.19	3.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.51	0.51	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.12	0.11	0.01	0.69	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.56	2.56	< 0.005	< 0.005	—	2.56
Total	0.70	0.70	0.01	0.69	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.56	2.56	< 0.005	< 0.005	—	2.56

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	42.9	36.9	79.8	4.40	0.10	—	221
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.43	0.43	0.00	0.00	—	0.43
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.60	0.60	0.00	0.00	—	0.60
Total	—	—	—	—	—	—	—	—	—	—	—	42.9	37.9	80.8	4.40	0.10	—	222
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

General Office Building	—	—	—	—	—	—	—	—	—	—	—	42.9	36.9	79.8	4.40	0.10	—	221
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.43	0.43	0.00	0.00	—	0.43
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.60	0.60	0.00	0.00	—	0.60
Total	—	—	—	—	—	—	—	—	—	—	—	42.9	37.9	80.8	4.40	0.10	—	222
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	7.10	6.10	13.2	0.73	0.02	—	36.6
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.07	0.07	0.00	0.00	—	0.07
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.10	0.10	0.00	0.00	—	0.10
Total	—	—	—	—	—	—	—	—	—	—	—	7.10	6.27	13.4	0.73	0.02	—	36.7

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	63.2	0.00	63.2	6.31	0.00	—	221

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	63.2	0.00	63.2	6.31	0.00	—	221
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	63.2	0.00	63.2	6.31	0.00	—	221
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	63.2	0.00	63.2	6.31	0.00	—	221
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	10.5	0.00	10.5	1.05	0.00	—	36.6
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	10.5	0.00	10.5	1.05	0.00	—	36.6

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.31	0.31
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.31	0.31
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.31	0.31
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.31	0.31
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.05	0.05
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.05	0.05

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year

General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	189,000	63,000	68,876

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
General Office Building	1,751,502	88.0	0.0000	0.0000	0.00
Parking Lot	346,020	88.0	0.0000	0.0000	0.00
Other Non-Asphalt Surfaces	0.00	88.0	0.0000	0.0000	0.00
General Office Building	973,057	88.0	0.0000	0.0000	0.00
Parking Lot	75,056	88.0	0.0000	0.0000	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Office Building	14,396,434	49,296
Parking Lot	0.00	276,986
Other Non-Asphalt Surfaces	0.00	467,902
General Office Building	7,998,019	31,555
Parking Lot	0.00	60,081

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Office Building	75.3	—
Parking Lot	0.00	—
Other Non-Asphalt Surfaces	0.00	—
General Office Building	41.9	—
Parking Lot	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	15.4	annual days of extreme heat
Extreme Precipitation	7.15	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth

Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	2	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	2	1	1	3

Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	82.5
AQ-PM	73.9
AQ-DPM	64.3
Drinking Water	83.1
Lead Risk Housing	30.6
Pesticides	0.00
Toxic Releases	64.3
Traffic	99.3

Effect Indicators	—
CleanUp Sites	17.1
Groundwater	11.3
Haz Waste Facilities/Generators	20.3
Impaired Water Bodies	87.0
Solid Waste	22.1
Sensitive Population	—
Asthma	39.6
Cardio-vascular	41.4
Low Birth Weights	58.0
Socioeconomic Factor Indicators	—
Education	22.2
Housing	78.5
Linguistic	77.9
Poverty	40.1
Unemployment	68.4

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	64.23713589
Employed	86.15424099
Median HI	42.53817529
Education	—
Bachelor's or higher	84.20377262
High school enrollment	100

Preschool enrollment	95.7141024
Transportation	—
Auto Access	21.89144104
Active commuting	11.7413063
Social	—
2-parent households	31.65661491
Voting	42.34569485
Neighborhood	—
Alcohol availability	41.33196458
Park access	81.35506224
Retail density	77.9930707
Supermarket access	44.77094829
Tree canopy	59.29680482
Housing	—
Homeownership	16.57898114
Housing habitability	27.16540485
Low-inc homeowner severe housing cost burden	14.19222379
Low-inc renter severe housing cost burden	72.47529834
Uncrowded housing	92.9038881
Health Outcomes	—
Insured adults	45.81034262
Arthritis	86.1
Asthma ER Admissions	67.5
High Blood Pressure	85.8
Cancer (excluding skin)	40.8
Asthma	69.3
Coronary Heart Disease	85.5

Chronic Obstructive Pulmonary Disease	86.1
Diagnosed Diabetes	92.6
Life Expectancy at Birth	96.7
Cognitively Disabled	60.3
Physically Disabled	43.7
Heart Attack ER Admissions	57.1
Mental Health Not Good	73.6
Chronic Kidney Disease	90.3
Obesity	69.5
Pedestrian Injuries	19.6
Physical Health Not Good	86.2
Stroke	88.3
Health Risk Behaviors	—
Binge Drinking	8.3
Current Smoker	71.8
No Leisure Time for Physical Activity	92.5
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	76.4
Elderly	53.1
English Speaking	42.7
Foreign-born	57.5
Outdoor Workers	86.2
Climate Change Adaptive Capacity	—
Impervious Surface Cover	20.1
Traffic Density	96.9

Traffic Access	87.4
Other Indices	—
Hardship	15.6
Other Decision Support	—
2016 Voting	39.1

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	66.0
Healthy Places Index Score for Project Location (b)	61.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification

Characteristics: Utility Information	This is a forecasted CO2e Intensity Factor for LADWP in 2045. SB100 will require electricity provided to customers to be from 100% renewable sources by 2045. SB100 allows for the use of renewable energy credits, which allows for natural gas to provide up to 10% of power generation, therefore the CO2e Intensity Factor accounts for some electricity generated from natural gas. Because it is a CO2e intensity factor, intensity factors for CH4 and N2O were zeroed-out.
Land Use	Assumed 5 percent of lot acreage would be landscaped.
Operations: Vehicle Data	Mobile emissions for employees at MSF calculated outside of CalEEMod.
Operations: Energy Use	For Office Buildings, CalEEMod generated default annual electricity (kWh) and natural gas consumption in kBTU/year, however, in accordance with the City of LA Municipal Code, all new buildings would be required to be all-electric buildings. Therefore, the annual natural gas consumption value (kBTU) was converted to kWh to account for the additional electricity consumption that is substituted for natural gas, and then added to the default electricity consumption value.

Station Operations CalEEMod Output Report

STC Alt 1-Station Operations Detailed Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	STC Alt 1-Station Operations
Operational Year	2045
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	18.6
Location	34.162704119335885, -118.46732780284923
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	3863
EDFZ	17
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.24

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Enclosed Parking with Elevator	819	1000sqft	18.8	562,249	40,954	—	—	—

Parking Lot	182	Space	1.64	0.00	3,568	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.55	4.21	0.21	24.5	< 0.005	0.04	0.00	0.04	0.03	0.00	0.03	0.00	617	617	< 0.005	< 0.005	0.00	617
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.19	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	516	516	0.00	0.00	0.00	516
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.17	2.94	0.14	16.7	< 0.005	0.03	0.00	0.03	0.02	0.00	0.02	0.00	585	585	< 0.005	< 0.005	0.00	585
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.58	0.54	0.03	3.06	< 0.005	0.01	0.00	0.01	< 0.005	0.00	< 0.005	0.00	96.9	96.9	< 0.005	< 0.005	0.00	96.9

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	4.55	4.21	0.21	24.5	< 0.005	0.04	—	0.04	0.03	—	0.03	—	101	101	< 0.005	< 0.005	—	101
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	515	515	0.00	0.00	—	515
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.80	0.80	0.00	0.00	—	0.80
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	4.55	4.21	0.21	24.5	< 0.005	0.04	0.00	0.04	0.03	0.00	0.03	0.00	617	617	< 0.005	< 0.005	0.00	617
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	0.19	0.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	515	515	0.00	0.00	—	515
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.80	0.80	0.00	0.00	—	0.80
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	0.19	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	516	516	0.00	0.00	0.00	516
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	3.17	2.94	0.14	16.7	< 0.005	0.03	—	0.03	0.02	—	0.02	—	68.9	68.9	< 0.005	< 0.005	—	69.1
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	515	515	0.00	0.00	—	515
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.80	0.80	0.00	0.00	—	0.80
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	3.17	2.94	0.14	16.7	< 0.005	0.03	0.00	0.03	0.02	0.00	0.02	0.00	585	585	< 0.005	< 0.005	0.00	585
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	0.58	0.54	0.03	3.06	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	11.4	11.4	< 0.005	< 0.005	—	11.4

Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	85.3	85.3	0.00	0.00	—	85.3
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.13	0.13	0.00	0.00	—	0.13
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	0.58	0.54	0.03	3.06	< 0.005	0.01	0.00	0.01	< 0.005	0.00	< 0.005	0.00	96.9	96.9	< 0.005	< 0.005	0.00	96.9

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	500	500	0.00	0.00	—	500
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	15.1	15.1	0.00	0.00	—	15.1
Total	—	—	—	—	—	—	—	—	—	—	—	—	515	515	0.00	0.00	—	515
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	500	500	0.00	0.00	—	500

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	15.1	15.1	0.00	0.00	—	15.1
Total	—	—	—	—	—	—	—	—	—	—	—	—	515	515	0.00	0.00	—	515
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	82.8	82.8	0.00	0.00	—	82.8
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	2.49	2.49	0.00	0.00	—	2.49
Total	—	—	—	—	—	—	—	—	—	—	—	—	85.3	85.3	0.00	0.00	—	85.3

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.12	0.12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	4.36	4.02	0.21	24.5	< 0.005	0.04	—	0.04	0.03	—	0.03	—	101	101	< 0.005	< 0.005	—	101
Total	4.55	4.21	0.21	24.5	< 0.005	0.04	—	0.04	0.03	—	0.03	—	101	101	< 0.005	< 0.005	—	101

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.12	0.12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.19	0.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.54	0.50	0.03	3.06	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	11.4	11.4	< 0.005	< 0.005	—	11.4
Total	0.58	0.54	0.03	3.06	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	11.4	11.4	< 0.005	< 0.005	—	11.4

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.73	0.73	0.00	0.00	—	0.73
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.06	0.06	0.00	0.00	—	0.06
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.80	0.80	0.00	0.00	—	0.80
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.73	0.73	0.00	0.00	—	0.73
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.06	0.06	0.00	0.00	—	0.06
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.80	0.80	0.00	0.00	—	0.80
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.12	0.12	0.00	0.00	—	0.12
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.01	0.01	0.00	0.00	—	0.01
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.13	0.13	0.00	0.00	—	0.13

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	36,859	4,095	53,426

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Enclosed Parking with Elevator	2,075,504	88.0	0.0000	0.0000	0.00
Parking Lot	62,504	88.0	0.0000	0.0000	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Enclosed Parking with Elevator	0.00	574,363
Parking Lot	0.00	50,040

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Enclosed Parking with Elevator	0.00	—
Parking Lot	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	15.4	annual days of extreme heat
Extreme Precipitation	7.15	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth

Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	2	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	2	1	1	3

Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	80.0
AQ-PM	68.9
AQ-DPM	79.9
Drinking Water	83.1
Lead Risk Housing	43.8
Pesticides	0.00
Toxic Releases	64.7
Traffic	99.8

Effect Indicators	—
CleanUp Sites	0.00
Groundwater	14.3
Haz Waste Facilities/Generators	40.9
Impaired Water Bodies	77.3
Solid Waste	0.00
Sensitive Population	—
Asthma	37.7
Cardio-vascular	69.7
Low Birth Weights	73.3
Socioeconomic Factor Indicators	—
Education	23.7
Housing	57.4
Linguistic	25.6
Poverty	28.2
Unemployment	74.1

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	75.74746567
Employed	87.75824458
Median HI	58.59104324
Education	—
Bachelor's or higher	84.51174131
High school enrollment	100

Preschool enrollment	95.7141024
Transportation	—
Auto Access	45.25856538
Active commuting	52.31618119
Social	—
2-parent households	93.32734505
Voting	0.654433466
Neighborhood	—
Alcohol availability	29.15436931
Park access	23.72642115
Retail density	81.59887078
Supermarket access	31.14333376
Tree canopy	66.90619787
Housing	—
Homeownership	39.93327345
Housing habitability	38.27794174
Low-inc homeowner severe housing cost burden	10.18863082
Low-inc renter severe housing cost burden	48.80020531
Uncrowded housing	96.93314513
Health Outcomes	—
Insured adults	46.81124086
Arthritis	73.2
Asthma ER Admissions	67.3
High Blood Pressure	79.9
Cancer (excluding skin)	30.9
Asthma	69.3
Coronary Heart Disease	77.0

Chronic Obstructive Pulmonary Disease	79.3
Diagnosed Diabetes	89.8
Life Expectancy at Birth	81.3
Cognitively Disabled	93.6
Physically Disabled	55.6
Heart Attack ER Admissions	14.6
Mental Health Not Good	73.6
Chronic Kidney Disease	85.5
Obesity	67.3
Pedestrian Injuries	79.9
Physical Health Not Good	81.0
Stroke	80.6
Health Risk Behaviors	—
Binge Drinking	10.6
Current Smoker	71.8
No Leisure Time for Physical Activity	90.4
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	64.0
Elderly	56.5
English Speaking	57.1
Foreign-born	53.9
Outdoor Workers	52.2
Climate Change Adaptive Capacity	—
Impervious Surface Cover	44.9
Traffic Density	98.7

Traffic Access	72.0
Other Indices	—
Hardship	11.1
Other Decision Support	—
2016 Voting	42.4

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	65.0
Healthy Places Index Score for Project Location (b)	67.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification

Characteristics: Utility Information	This is a forecasted CO2e Intensity Factor for LADWP in 2045. SB100 will require electricity provided to customers to be from 100% renewable sources by 2045. SB100 allows for the use of renewable energy credits, which allows for natural gas to provide up to 10% of power generation, therefore the CO2e Intensity Factor accounts for some electricity generated from natural gas. Because it is a CO2e intensity factor, intensity factors for CH4 and N2O were zeroed-out.
Land Use	CalEEMod does not have train station land use types, therefore, stations were represented using the "Enclosed Parking with Elevators" land use type. This land use type was selected because it accounts for electricity consumption from elevators and ventilation systems. Although aerial stations would not be enclosed, this land use type would result in a conservative estimate of electricity consumption. The building area represents the station area for all stations in this alternative. It was also assumed 5 percent of the lot acreage would be landscaped.

Alignment Electricity Consumption

LASRE Alternatives

Track Alignment Electricity Consumption for Design Year (2045)

LASRE Alternatives	Annual Consumption (MWh)[1]	2045 LADWP CO_2e Intensity Factor (lb/MWh)[2]	Annual GHG Emissions ($MTCO_2e$/yr)
Alternative 1	71,524	88	2856.4
Alternative 3	83,693	88	3342.4

Notes:

1. Electricity consumption values based on Energy Consumption During Operations Report (MRT.PH3.3.6.10.k.draft) Accounts for electricity consumption from all components (traction power for track alignment, stations, MSFs, e-buses, etc.).

2. This is a forecasted CO_2e Intensity Factor for LADWP in 2045. SB100 will require electricity provided to customers to be from 100% renewable sources by 2045. SB100 allows for the use of renewable energy credits, thus allowing for the combustion of natural gas to provide up to 10% of generation, thus the CO_2e Intensity Factor accounts for some electricity generated from natural gas.

lb = pound
MWh = Megawatt-hour
$MTCO_2e$ = metric tons of carbon dioxide equivalent

Emergency Generator Emissions

Emergency Generators

Generator Data

Parameter	Value
Rating (MW)[1]:	1.5
Rating (kVA)[1]:	1875
Horsepower (HP)[3]:	2346

										Emission Factor (g/bhp-hr)[5]														
Alternative	Generator Scenario	# of UG Stations	Generators per UG Station	# of Generators	M&T Daily Use per Generator (hours/day)	Annual M&T Usage (hour/year)[2]	Total Annual Tesing Hours (hours/year)	HP[3]	Load Factor[4]	ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Alternative 1	All AERIAL, No Generators Require	-	1	-	1	50	-	2,346	0.73	1.02	4.56	2.60	0.005	-	0.15	0.15	-	0.15	0.15	521.64	0.0209	0.0041
Alternative 1	MSF	n/a	n/a	1	1	50	50	2,346	0.73	1.02	4.56	2.60	0.005	-	0.15	0.15	-	0.15	0.15	521.64	0.0209	0.0041

Notes:

M&T = Maintenance and Testing

1. Generator data from Emergency and Uninterruptible Power Supply Design Plans
2. SCAQMD 2021, Rule 1470. Generators shall not operate more than 50 hours per year for maintenance and testing.
3. HP obtained from spec sheet for Generac Diesel Generator-SD1500 (1875 kVA)
4. Load factor is based on CalEEMod default value for emergency generators.
5. Emission factors are based on CalEEMod default values for emergency generators.
6. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. CO_2 = 1; CH_4 = 25; N_2O = 298

Emergency Generators

Generator Data

Parameter	Value
Rating (MW)[1]:	1.5
Rating (kVA)[1]:	1875
Horsepower (HP)[3]:	2346

										Daily Emissions (lb/day)													
Alternative	Generator Scenario	# of UG Stations	Generators per UG Station	# of Generators	M&T Daily Use per Generator (hours/day)	Annual M&T Usage (hour/year)[2]	Total Annual Tesing Hours (hours/year)	HP[3]	Load Factor[4]	ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Alternative 1	All AERIAL, No Generators Require	-	1	-	1	50	-	2,346	0.73	-	-	-	-	-	-	-	-	-	-	-	-	-
Alternative 1	MSF	n/a	n/a	1	1	50	50	2,346	0.73	3.85	17.22	9.82	0.02	-	0.57	0.57	-	0.57	0.57	1969.5	0.08	0.02
										3.85	17.22	9.82	0.02	-	0.57	0.57	-	0.57	0.57	1969.50	0.08	0.02

Notes:

M&T = Maintenance and Testing

1. Generator data from Emergency and Uninterruptible Power Supply Design Plans
2. SCAQMD 2021, Rule 1470. Generators shall not operate more than 50 hours per year for maintenance and testing.
3. HP obtained from spec sheet for Generac Diesel Generator-SD1500 (1875 kVA)
4. Load factor is based on CalEEMod default value for emergency generators.
5. Emission factors are based on CalEEMod default values for emergency generators.
6. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. CO_2 = 1; CH_4 = 25; N_2O = 298

Emergency Generators

Generator Data

Parameter	Value
Rating (MW)[1]:	1.5
Rating (kVA)[1]:	1875
Horsepower (HP)[3]:	2346

										Annual Emissions (tons)										Annual Emissions (metric tons)[6]			
Alternative	Generator Scenario	# of UG Stations	Generators per UG Station	# of Generators	M&T Daily Use per Generator (hours/day)	Annual M&T Usage (hour/year)[2]	Total Annual Tesing Hours (hours/year)	HP[3]	Load Factor[4]	ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Alternative 1	All AERIAL, No Generators Require	-	1	-	1	50	-	2,346	0.73	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alternative 1	MSF	n/a	n/a	1	1	50	50	2,346	0.73	0.10	0.43	0.25	0.00	-	0.01	0.01	-	0.01	0.01	44.67	0.00	0.00	44.82
										0.10	0.43	0.25	0.00	-	0.01	0.01	-	0.01	0.01	44.67	0.00	0.00	44.82

Notes:

M&T = Maintenance and Testing

1. Generator data from Emergency and Uninterruptible Power Supply Design Plans
2. SCAQMD 2021, Rule 1470. Generators shall not operate more than 50 hours per year for maintenance and testing.
3. HP obtained from spec sheet for Generac Diesel Generator-SD1500 (1875 kVA)
4. Load factor is based on CalEEMod default value for emergency generators.
5. Emission factors are based on CalEEMod default values for emergency generators.
6. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. CO_2 = 1; CH_4 = 25; N_2O = 298

LADWP Forecasted CO_2e Intensity Factor Calculation for 2045

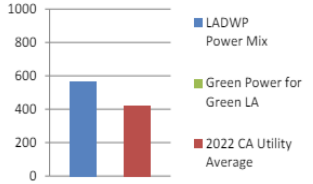
LADWP GHG Intensity Factors

2022 CO_2e Intensity Factor (lb/MWh)[1]
567

	2022 to 2045				
Resource Type	**2022 CO_2e Intensity Factor (lb/MWh)**	**2022 Power Mix**	**2045 Power Mix**	**% Change**	**2045 CO_2e Intensity Factor (lb/MWh)**
Renewables	0.0	35.6%	90%	153%	0.0
Non-Renewables	567.0	64.4%	10%	-84%	88.0
Totals	**567.0**	**100%**	**100%**	**N/A**	**88.0**

2022 POWER CONTENT LABEL
LADWP
https://www.ladwp.com/powercontent

Greenhouse Gas Emissions Intensity (lbs CO_2e/MWh)			Energy Resources	LADWP Power Mix	Green Power for Green LA	2022 CA Power Mix
LADWP Power Mix	Green Power for Green LA	2022 CA Utility Average	**Eligible Renewable**[1]	**35.6%**	**100.0%**	**35.8%**
567	0	422	Biomass & Biowaste	0.1%	0.0%	2.1%
			Geothermal	7.5%	0.0%	4.7%
			Eligible Hydroelectric	0.6%	0.0%	1.1%
			Solar	14.1%	100.0%	17.0%
			Wind	13.3%	0.0%	10.8%
			Coal	**12.6%**	**0.0%**	**2.1%**
			Large Hydroelectric	**4.0%**	**0.0%**	**9.2%**
			Natural Gas	**34.5%**	**0.0%**	**36.4%**
			Nuclear	**13.3%**	**0.0%**	**9.2%**
			Other	**0.0%**	**0.0%**	**0.1%**
			Unspecified Power[2]	**0.0%**	**0.0%**	**7.1%**
			TOTAL	**100.0%**	**100.0%**	**100.0%**
			Percentage of Retail Sales Covered by Retired Unbundled RECs[3]**:**	**3%**	**0%**	



[1]The eligible renewable percentage above does not reflect RPS compliance, which is determined using a different methodology.
[2]Unspecified power is electricity that has been purchased through open market transactions and is not traceable to a specific generation source.
[3]Renewable energy credits (RECs) are tracking instruments issued for renewable generation. Unbundled renewable energy credits (RECs) represent renewable generation that was not delivered to serve retail sales. Unbundled RECs are not reflected in the power mix or GHG emissions intensities above.
The unbundled RECs retired in association with LADWP's 2022 electricity portfolios were sourced from eligible renewable energy generators such as biomass, biowaste, geothermal, eligible hydroelectric, solar, and wind energy resources.

For specific information about this electricity portfolio, contact:	**Los Angeles Department of Water and Power 1-800-DIAL-DWP**
For general information about the Power Content Label, visit:	https://www.energy.ca.gov/programs-and-topics/programs/power-source-disclosure-program

Notes:

1. LADWP, 2022. Power Content Label
2. SB100 would require renewable energy and zero-carbon resources to supply 100 percent of electric retail sales to end-use customers by 2045. Los Angeles Department of Water and Power (LADWP) Strategic Long-Term Resource Plan (SLTRP) was developed to meet this requirement and even exceed this requirement by meeting the 100% renewables goal by 2035. To be conservative, it was assumed that LADWP's power mix would be compliant with SB100's standard schedule of 2045 due to uncertainty in assumptions made to meet the 2035 date. SB100 allows for the use of renewable energy credits which are a market-based mechanism to help meet renewable energy targets. This allows natural gas generation to help meet the 100% target if offset by the purchase of RECs. Therefore, it was assumed that natural gas could provide up to 10% of electricity generation in 2045, thus the CO_2e Intensity Factor accounts for some electricity generated from natural gas.

Appendix A-3.1: Alternative 3 Unmitigated Construction Emissions

Sepulveda Transit Corridor Project - ALTERNATIVE 3
Maximum Regional (Offsite + Onsite) Daily Emissions

						Max Day Date									
						8/2/2032	8/2/2032	8/2/2032	8/2/2032	5/2/2033	5/2/2033	5/2/2033	5/2/2033	5/2/2033	5/2/2033
						Daily Emissions (lb/day)									
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Hours per Workday**	**ROG**	**NO_x**	**CO**	**SO_x**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	**0.570**	**4.268**	**14.349**	**0.022**	0.538	0.097	0.635	0.096	0.091	0.187
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	**0.567**	**5.378**	**14.518**	**0.031**	1.369	0.107	1.476	0.242	0.101	0.343
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	**5.517**	**39.445**	**171.726**	**0.330**	**5.193**	**1.258**	**6.450**	**1.063**	**1.197**	**2.261**
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	0.721	4.834	21.355	0.038	0.443	0.158	0.601	0.094	0.150	0.244
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	0.418	2.677	12.206	0.022	0.339	0.098	0.438	0.067	0.093	0.161
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	**1.070**	**8.354**	**27.685**	**0.040**	0.684	0.192	0.876	0.112	0.180	0.292
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	**1.032**	**8.677**	**27.664**	**0.043**	0.867	0.183	1.050	0.146	0.172	0.319
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	**2.265**	**30.591**	**67.364**	**0.249**	9.450	0.714	10.163	1.769	0.680	2.449
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	1.942	44.191	42.850	0.327	**14.957**	**0.790**	**15.747**	**2.951**	**0.752**	**3.703**
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	1.670	11.547	48.385	0.084	0.495	0.393	0.888	0.107	0.372	0.479
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	**0.570**	**4.268**	**14.349**	**0.022**	0.538	0.097	0.635	0.096	0.091	0.187
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	**0.552**	**4.616**	**14.352**	**0.025**	0.716	0.095	0.812	0.130	0.090	0.220
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (CIDH)	6/1/2032	10/31/2033	5	370	10	**1.015**	**6.924**	**32.500**	**0.058**	**0.888**	**0.229**	**1.117**	**0.183**	**0.218**	**0.401**
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Assembly	11/1/2033	11/30/2033	5	22	10	0.699	5.673	22.535	0.040	0.495	0.139	0.634	0.107	0.133	0.239
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	0.879	5.881	24.807	0.044	0.495	0.200	0.695	0.107	0.190	0.296
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	**0.570**	**4.268**	**14.349**	**0.022**	0.538	0.097	0.635	0.096	0.091	0.187
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	**0.552**	**4.616**	**14.352**	**0.025**	0.756	0.095	0.851	0.136	0.090	0.226
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	8/1/2032	5/31/2033	5	217	10	**1.615**	**12.836**	**49.558**	**0.107**	**2.484**	**0.380**	**2.865**	**0.471**	**0.362**	**0.833**
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	0.730	4.859	21.441	0.038	**0.443**	**0.161**	**0.604**	**0.094**	**0.153**	**0.247**
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	0.423	2.688	12.283	0.022	0.339	0.099	0.438	0.067	0.094	0.161
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	0.570	4.268	14.349	0.022	0.538	0.097	0.635	0.096	0.091	0.187
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	0.534	4.582	14.282	0.024	0.730	0.088	0.818	0.132	0.083	0.215
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	**0.796**	**5.587**	**24.656**	**0.047**	0.784	0.178	0.962	0.157	0.170	0.327
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	0.730	4.859	21.441	0.038	0.443	0.161	0.604	0.094	0.153	0.247
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	0.423	2.688	12.283	0.022	**0.339**	**0.099**	**0.438**	**0.067**	**0.094**	**0.161**
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	0.570	4.268	14.349	0.022	0.538	0.097	0.635	0.096	0.091	0.187
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	0.534	4.582	14.282	0.024	0.720	0.088	0.808	0.130	0.083	0.214
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	**0.796**	**5.587**	**24.656**	**0.047**	0.784	0.178	0.962	0.157	0.170	0.327
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	0.730	4.859	21.441	0.038	0.443	0.161	0.604	0.094	0.153	0.247
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	0.423	2.688	12.283	0.022	**0.339**	**0.099**	**0.438**	**0.067**	**0.094**	**0.161**
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	0.570	4.268	14.349	0.022	0.538	0.097	0.635	0.096	0.091	0.187
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	0.534	4.582	14.282	0.024	0.724	0.088	0.812	0.131	0.083	0.214
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	**0.796**	**5.587**	**24.656**	**0.047**	**0.784**	**0.178**	**0.962**	**0.157**	**0.170**	**0.327**
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	0.724	4.846	21.393	0.038	0.443	0.160	0.603	0.094	0.152	0.245
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	0.421	2.683	12.252	0.022	0.339	0.099	0.438	0.067	0.094	0.161
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	0.570	4.268	14.349	0.022	0.538	0.097	0.635	0.096	0.091	0.187
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	0.534	4.582	14.282	0.024	0.720	0.088	0.808	0.130	0.083	0.214
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	**0.796**	**5.587**	**24.656**	**0.047**	0.784	0.178	0.962	0.157	0.170	0.327
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	0.730	4.859	21.441	0.038	**0.443**	**0.161**	**0.604**	**0.094**	**0.153**	**0.247**
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	0.423	2.688	12.283	0.022	0.339	0.099	0.438	0.067	0.094	0.161
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	0.570	4.268	14.349	0.022	0.538	0.097	0.635	0.096	0.091	0.187
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	0.534	4.582	14.282	0.024	0.721	0.088	0.809	0.131	0.083	0.214
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	**0.796**	**5.587**	**24.656**	**0.047**	0.784	0.178	0.962	0.157	0.170	0.327
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	0.730	4.859	21.441	0.038	**0.443**	**0.161**	**0.604**	**0.094**	**0.153**	**0.247**
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	0.423	2.688	12.283	0.022	0.339	0.099	0.438	0.067	0.094	0.161
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	0.570	4.268	14.349	0.022	0.538	0.097	0.635	0.096	0.091	0.187
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	0.560	4.997	14.435	0.028	1.129	0.101	1.230	0.199	0.095	0.294
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	**0.967**	**14.394**	**26.598**	**0.118**	**4.833**	**0.315**	**5.148**	**0.929**	**0.300**	**1.229**
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	0.744	5.619	21.658	0.045	1.139	0.168	1.306	0.198	0.160	0.357
UCLA Gateway MRT Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	0.418	2.677	12.206	0.022	0.339	0.098	0.438	0.067	0.093	0.161
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	0.570	4.268	14.349	0.022	0.538	0.097	0.635	0.096	0.091	0.187
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	0.552	4.616	14.352	0.025	0.737	0.095	0.832	0.133	0.090	0.223
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	**1.091**	**20.727**	**28.005**	**0.169**	**7.783**	**0.413**	**8.196**	**1.488**	**0.394**	**1.882**
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	0.754	6.005	21.790	0.048	1.486	0.172	1.658	0.250	0.164	0.413
Wilshire Blvd-Metro D Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	0.418	2.677	12.206	0.022	0.339	0.098	0.438	0.067	0.093	0.161
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	0.570	4.268	14.349	0.022	0.538	0.097	0.635	0.096	0.091	0.187
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	0.534	4.582	14.282	0.024	0.724	0.088	0.812	0.131	0.083	0.214
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	**0.796**	**5.587**	**24.656**	**0.047**	0.784	0.178	0.962	0.157	0.170	0.327
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	0.730	4.859	21.441	0.038	**0.443**	**0.161**	**0.604**	**0.094**	**0.153**	**0.247**
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	0.423	2.688	12.283	0.022	0.339	0.099	0.438	0.067	0.094	0.161

Sepulveda Transit Corridor Project - ALTERNATIVE 3
Maximum Regional (Offsite + Onsite) Daily Emissions

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	Max Day Date									
						8/2/2032	8/2/2032	8/2/2032	8/2/2032	5/2/2033	5/2/2033	5/2/2033	5/2/2033	5/2/2033	5/2/2033
						Daily Emissions (lb/day)									
						ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	0.570	4.268	14.349	0.022	0.538	0.097	0.635	0.096	0.091	0.187
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	0.534	4.582	14.282	0.024	0.724	0.088	0.812	0.131	0.083	0.214
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	**0.796**	**5.587**	**24.656**	**0.047**	0.784	0.178	0.962	0.157	0.170	0.327
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	0.730	4.859	21.441	0.038	**0.443**	**0.161**	**0.604**	**0.094**	**0.153**	**0.247**
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	0.423	2.688	12.283	0.022	0.339	0.099	0.438	0.067	0.094	0.161
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	**0.511**	**4.182**	**14.143**	**0.021**	0.538	0.076	0.614	0.096	0.072	0.168
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	0.319	2.115	11.261	0.021	2.150	0.056	2.206	0.998	0.054	1.052
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	0.398	3.516	15.716	0.035	**2.816**	**0.085**	**2.901**	**1.112**	**0.082**	**1.194**
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	0.555	3.430	13.927	0.024	0.715	0.124	0.839	0.150	0.116	0.267
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2.264	4.161	14.096	0.021	0.538	0.071	0.609	0.096	0.067	0.163
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	0.636	3.927	21.641	0.035	2.452	0.128	2.580	1.053	0.122	1.175
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	**0.511**	**4.182**	**14.143**	**0.021**	0.538	0.076	0.614	0.096	0.072	0.168
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	0.319	2.115	11.261	0.021	2.150	0.056	2.206	0.998	0.054	1.052
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	0.398	3.516	15.716	0.035	**2.816**	**0.085**	**2.901**	**1.112**	**0.082**	**1.194**
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	0.555	3.430	13.927	0.024	0.715	0.124	0.839	0.150	0.116	0.267
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2.264	4.161	14.096	0.021	0.538	0.071	0.609	0.096	0.067	0.163
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	0.636	3.927	21.641	0.035	2.452	0.128	2.580	1.053	0.122	1.175
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	**0.511**	**4.182**	**14.143**	**0.021**	0.538	0.076	0.614	0.096	0.072	0.168
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	0.319	2.115	11.261	0.021	2.150	0.056	2.206	0.998	0.054	1.052
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	0.427	4.990	16.047	0.047	**3.511**	**0.108**	**3.619**	**1.244**	**0.104**	**1.348**
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	0.555	3.430	13.927	0.024	0.715	0.124	0.839	0.150	0.116	0.267
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	1.438	4.161	14.096	0.021	0.538	0.071	0.609	0.096	0.067	0.163
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	0.636	3.927	21.641	0.035	2.452	0.128	2.580	1.053	0.122	1.175
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	**0.527**	**4.205**	**14.199**	**0.021**	0.538	0.082	0.620	0.096	0.078	0.174
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	0.508	4.530	14.178	0.024	0.746	0.077	0.822	0.134	0.073	0.207
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	1.004	9.726	40.058	0.102	**4.955**	**0.235**	**5.190**	**1.479**	**0.229**	**1.708**
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	0.614	7.288	22.060	0.065	3.455	0.132	3.587	0.544	0.127	0.672
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	6.323	4.161	14.096	0.021	0.538	0.071	0.609	0.096	0.067	0.163
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	3.686	3.740	19.269	0.032	2.400	0.118	2.518	1.040	0.113	1.152
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	0.835	6.233	23.298	0.038	0.932	0.157	1.088	0.173	0.148	0.321
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	0.834	6.233	23.298	0.038	0.931	0.157	1.088	0.173	0.148	0.321
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	0.835	6.233	23.298	0.038	0.932	0.157	1.088	0.173	0.148	0.321
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	0.834	6.233	23.298	0.038	0.931	0.157	1.088	0.173	0.148	0.321
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	0.570	4.268	14.349	0.022	0.538	0.097	0.635	0.096	0.091	0.187
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	1.475	16.951	46.721	0.151	14.559	0.379	14.938	5.044	0.364	5.408
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	3.016	23.006	132.169	0.288	20.477	0.650	21.128	8.487	0.637	9.125
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	**6.097**	**10.403**	**19.743**	**0.092**	5.042	0.201	5.244	0.915	0.193	1.108
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	0.554	4.674	14.224	0.025	0.764	0.103	0.867	0.134	0.097	0.231
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	0.933	5.727	38.873	0.069	2.918	0.188	3.106	1.084	0.183	1.267
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	3.124	9.012	57.921	0.113	2.099	0.259	2.358	0.419	0.253	0.672
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	0.547	4.255	14.073	0.021	0.505	0.090	0.594	0.088	0.085	0.173
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	0.861	3.982	21.322	0.035	2.314	0.141	2.455	1.018	0.134	1.152
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	**0.885**	**7.405**	**28.933**	**0.073**	**4.538**	**0.235**	**4.773**	**0.783**	**0.225**	**1.008**
					Maximum Daily Emissions[1]	32.57	243.03	795.26	1.83	58.45	5.31	63.77	13.57	5.07	18.65
					SCAQMD Regional Significance Thresholds[2]	75	100	550	150	n/a	n/a	150	n/a	n/a	55
					Threshold Exceeded?	No	Yes	Yes	No	--	--	No	--	--	No

Notes:

1. Maximum daily emissions are based on the sum of daily emissions from individual phases whose schedules overlap.
2. SCAQMD, Air Quality Significance Thresholds, April 2019.
3. Highlighted cells indicate phases that contribute to maximum daily emissions.

Sepulveda Transit Corridor Project - ALTERNATIVE 3

Maximum Regional (Offsite + Onsite) Daily Emissions per Construction Year

	Maximum Daily Emissions (lb/day)									
Construction Year	ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total
2029	13.27	94.50	346.29	0.54	14.32	2.26	16.58	3.14	2.14	5.28
2030	14.38	116.83	375.20	0.70	31.81	2.64	34.45	8.32	2.50	10.72
2031	15.90	129.28	474.38	0.88	39.56	2.94	42.50	11.86	2.80	14.66
2032	**32.57**	**243.03**	**795.26**	**1.83**	53.86	**6.26**	60.12	11.86	**5.96**	16.10
2033	23.14	202.93	624.14	1.68	**58.45**	5.31	**63.77**	**13.57**	5.07	**18.65**
2034	20.78	155.36	427.83	1.22	37.06	3.98	41.04	7.29	3.79	11.07
2035	10.22	103.32	294.84	0.82	23.79	2.68	26.48	4.66	2.55	7.22
2036	4.73	33.36	137.60	0.26	4.24	1.09	5.33	0.78	1.03	1.81
2037	2.51	16.90	72.80	0.13	1.17	0.59	1.76	0.24	0.56	0.80
Maximum Daily Emissions	**32.57**	**243.03**	**795.26**	**1.83**	**58.45**	**6.26**	**63.77**	**13.57**	**5.96**	**18.65**
SCAQMD Regional Thresholds	75	100	550	150	n/a	n/a	150	n/a	n/a	55
Threshold Exceeded?	**No**	**Yes**	**Yes**	**No**	--	--	**No**	--	--	**No**

Notes:

1. Maximum daily emissions are based on the sum of daily emissions from individual phases whose schedules overlap.
2. SCAQMD, Air Quality Significance Thresholds, April 2019.
3. Highlighted cells indicate daily maximum emissions.

Sepulveda Transit Corridor Project - ALTERNATIVE 3

Total Regional (Offsite + Onsite) Emissions per Construction Phase

						Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	0.30	2.23	7.50	1.12E-02	0.281	0.051	0.332	0.050	0.048	0.098	1041.23	0.0394	0.0136	1046.27
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	0.19	1.76	4.75	1.01E-02	0.448	0.035	0.483	0.079	0.033	0.112	942.09	0.0248	0.0541	958.84
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2.34	16.70	72.73	1.40E-01	2.199	0.533	2.732	0.450	0.507	0.957	13254.12	0.4591	0.3471	13369.02
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	0.06	0.42	1.86	3.32E-03	0.039	0.014	0.052	0.008	0.013	0.021	313.69	0.0120	0.0033	314.97
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	0.01	0.06	0.27	4.84E-04	0.007	0.002	0.010	0.001	0.002	0.004	45.40	0.0017	0.0005	45.60
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	0.56	4.37	14.47	2.10E-02	0.358	0.100	0.458	0.059	0.094	0.153	1937.13	0.0757	0.0209	1945.24
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	0.34	2.84	9.06	1.41E-02	0.284	0.060	0.344	0.048	0.056	0.104	1309.99	0.0474	0.0282	1319.58
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	0.17	2.36	5.19	1.91E-02	0.728	0.055	0.783	0.136	0.052	0.189	1823.55	0.0310	0.1755	1876.62
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	0.65	14.85	14.40	1.10E-01	5.025	0.266	5.291	0.992	0.253	1.244	10494.48	0.0844	1.3656	10903.53
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	0.34	2.38	9.99	1.73E-02	0.102	0.081	0.183	0.022	0.077	0.099	1618.23	0.0637	0.0150	1624.30
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	0.30	2.23	7.50	1.12E-02	0.281	0.051	0.332	0.050	0.048	0.098	1041.23	0.0394	0.0136	1046.27
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	0.18	1.51	4.70	8.04E-03	0.235	0.031	0.266	0.043	0.029	0.072	748.51	0.0246	0.0236	756.17
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (CIDH)	6/1/2032	10/31/2033	5	370	10	0.19	1.28	6.01	1.08E-02	0.164	0.042	0.207	0.034	0.040	0.074	1020.89	0.0366	0.0212	1028.13
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Assembly	11/1/2033	11/30/2033	5	22	10	0.01	0.06	0.25	4.44E-04	0.005	0.002	0.007	0.001	0.001	0.003	42.54	0.0016	0.0005	42.72
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	0.02	0.13	0.55	9.62E-04	0.011	0.004	0.015	0.002	0.004	0.007	90.23	0.0035	0.0009	90.59
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	0.30	2.23	7.50	1.12E-02	0.281	0.051	0.332	0.050	0.048	0.098	1041.23	0.0394	0.0136	1046.27
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	0.18	1.51	4.70	8.04E-03	0.247	0.031	0.279	0.044	0.029	0.074	748.51	0.0246	0.0236	756.17
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	8/1/2032	5/31/2033	5	217	10	0.18	1.39	5.38	1.16E-02	0.270	0.041	0.311	0.051	0.039	0.090	1100.82	0.0338	0.0457	1115.28
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	0.05	0.32	1.40	2.50E-03	0.029	0.011	0.040	0.006	0.010	0.016	236.44	0.0091	0.0025	237.42
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	0.01	0.06	0.27	4.86E-04	0.007	0.002	0.010	0.001	0.002	0.004	45.49	0.0017	0.0005	45.70
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	0.19	1.39	4.67	7.00E-03	0.175	0.031	0.207	0.031	0.030	0.061	648.65	0.0245	0.0085	651.79
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	0.05	0.45	1.41	2.41E-03	0.072	0.009	0.081	0.013	0.008	0.021	224.45	0.0074	0.0070	226.72
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	0.09	0.66	2.93	5.54E-03	0.093	0.021	0.115	0.019	0.020	0.039	526.07	0.0185	0.0125	530.24
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	0.01	0.06	0.25	4.39E-04	0.005	0.002	0.007	0.001	0.002	0.003	41.51	0.0016	0.0004	41.68
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	0.11	0.67	3.06	5.51E-03	0.085	0.025	0.109	0.017	0.023	0.040	515.91	0.0195	0.0062	518.24
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	0.19	1.39	4.67	7.00E-03	0.175	0.031	0.207	0.031	0.030	0.061	648.65	0.0245	0.0085	651.79
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	0.05	0.45	1.41	2.41E-03	0.071	0.009	0.080	0.013	0.008	0.021	224.45	0.0074	0.0070	226.72
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	0.08	0.55	2.43	4.59E-03	0.077	0.018	0.095	0.015	0.017	0.032	435.44	0.0153	0.0103	438.90
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	0.02	0.16	0.69	1.22E-03	0.014	0.005	0.019	0.003	0.005	0.008	115.51	0.0044	0.0012	115.99
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	0.09	0.56	2.54	4.56E-03	0.070	0.020	0.091	0.014	0.019	0.033	426.99	0.0162	0.0051	428.92
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	0.19	1.39	4.67	7.00E-03	0.175	0.031	0.207	0.031	0.030	0.061	648.65	0.0245	0.0085	651.79
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	0.05	0.45	1.41	2.41E-03	0.071	0.009	0.080	0.013	0.008	0.021	224.45	0.0074	0.0070	226.72
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	0.20	1.40	6.19	1.17E-02	0.197	0.045	0.242	0.039	0.043	0.082	1109.61	0.0390	0.0263	1118.41
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	0.03	0.21	0.91	1.62E-03	0.019	0.007	0.026	0.004	0.006	0.010	153.32	0.0059	0.0016	153.95
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	0.08	0.50	2.27	4.08E-03	0.063	0.018	0.081	0.012	0.017	0.030	382.25	0.0145	0.0045	383.96
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	0.19	1.39	4.67	7.00E-03	0.175	0.031	0.207	0.031	0.030	0.061	648.65	0.0245	0.0085	651.79
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	0.05	0.45	1.41	2.41E-03	0.071	0.009	0.080	0.013	0.008	0.021	224.45	0.0074	0.0070	226.72
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	0.11	0.79	3.48	6.57E-03	0.111	0.025	0.136	0.022	0.024	0.046	623.33	0.0219	0.0148	628.27
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	0.04	0.27	1.18	2.10E-03	0.024	0.009	0.033	0.005	0.008	0.014	198.54	0.0076	0.0021	199.36
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	0.07	0.44	2.00	3.59E-03	0.055	0.016	0.071	0.011	0.015	0.026	336.01	0.0127	0.0040	337.53
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	0.19	1.39	4.67	7.00E-03	0.175	0.031	0.207	0.031	0.030	0.061	648.65	0.0245	0.0085	651.79
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	0.05	0.45	1.41	2.41E-03	0.071	0.009	0.080	0.013	0.008	0.021	224.45	0.0074	0.0070	226.72
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	0.08	0.55	2.43	4.59E-03	0.077	0.018	0.095	0.015	0.017	0.032	435.44	0.0153	0.0103	438.90
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	0.04	0.26	1.15	2.04E-03	0.024	0.009	0.032	0.005	0.008	0.013	193.12	0.0074	0.0021	193.92
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	0.06	0.35	1.60	2.88E-03	0.044	0.013	0.057	0.009	0.012	0.021	269.84	0.0102	0.0032	271.06
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	0.23	1.72	5.78	8.66E-03	0.216	0.039	0.255	0.039	0.037	0.075	802.10	0.0303	0.0105	805.98
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	0.15	1.36	3.93	7.51E-03	0.307	0.027	0.334	0.054	0.026	0.080	702.05	0.0205	0.0323	712.19
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	0.25	3.76	6.94	3.07E-02	1.262	0.082	1.344	0.242	0.078	0.321	2927.74	0.0425	0.3068	3020.23
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	0.20	1.52	5.87	1.21E-02	0.309	0.045	0.354	0.054	0.043	0.097	1145.66	0.0378	0.0368	1157.57
UCLA Gateway MRT Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	0.09	0.58	2.65	4.78E-03	0.074	0.021	0.095	0.015	0.020	0.035	447.79	0.0169	0.0053	449.78
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	0.23	1.72	5.78	8.66E-03	0.216	0.039	0.255	0.039	0.037	0.075	802.10	0.0303	0.0105	805.98
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	0.15	1.26	3.90	6.68E-03	0.201	0.026	0.226	0.036	0.024	0.061	621.67	0.0205	0.0196	628.03
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	0.28	5.41	7.31	4.40E-02	2.031	0.108	2.139	0.388	0.103	0.491	4203.73	0.0438	0.5078	4356.16
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	0.20	1.63	5.91	1.30E-02	0.403	0.047	0.449	0.068	0.044	0.112	1229.66	0.0379	0.0500	1245.52
Wilshire Blvd-Metro D Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	0.09	0.58	2.65	4.78E-03	0.074	0.021	0.095	0.015	0.020	0.035	447.79	0.0169	0.0053	449.78
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	0.19	1.39	4.67	7.00E-03	0.175	0.031	0.207	0.031	0.030	0.061	648.65	0.0245	0.0085	651.79
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	0.05	0.45	1.41	2.41E-03	0.071	0.009	0.080	0.013	0.008	0.021	224.45	0.0074	0.0070	226.72
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	0.08	0.55	2.43	4.59E-03	0.077	0.018	0.095	0.015	0.017	0.032	435.44	0.0153	0.0103	438.90
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	0.05	0.31	1.38	2.46E-03	0.029	0.010	0.039	0.006	0.010	0.016	232.83	0.0090	0.0025	233.79
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	0.07	0.44	2.00	3.60E-03	0.055	0.016	0.071	0.011	0.015	0.026	337.05	0.0128	0.0040	338.57

Sepulveda Transit Corridor Project - ALTERNATIVE 3

Total Regional (Offsite + Onsite) Emissions per Construction Phase

						Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	0.19	1.39	4.67	7.00E-03	0.175	0.031	0.207	0.031	0.030	0.061	648.65	0.0245	0.0085	651.79
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	0.05	0.45	1.41	2.41E-03	0.071	0.009	0.080	0.013	0.008	0.021	224.45	0.0074	0.0070	226.72
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	0.09	0.66	2.93	5.54E-03	0.093	0.021	0.115	0.019	0.020	0.039	526.07	0.0185	0.0125	530.24
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	0.02	0.16	0.71	1.26E-03	0.015	0.005	0.020	0.003	0.005	0.008	119.12	0.0046	0.0013	119.61
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	0.10	0.64	2.94	5.28E-03	0.081	0.024	0.105	0.016	0.022	0.039	494.20	0.0187	0.0059	496.43
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	0.04	0.37	1.24	1.87E-03	0.047	0.007	0.054	0.008	0.006	0.015	173.71	0.0065	0.0022	174.52
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	0.01	0.07	0.36	6.58E-04	0.069	0.002	0.071	0.032	0.002	0.034	64.03	0.0024	0.0008	64.32
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	0.01	0.08	0.34	7.54E-04	0.061	0.002	0.062	0.024	0.002	0.026	73.13	0.0021	0.0035	74.22
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	0.01	0.07	0.30	5.26E-04	0.015	0.003	0.018	0.003	0.003	0.006	47.92	0.0016	0.0010	48.24
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	0.03	0.05	0.16	2.46E-04	0.006	0.001	0.007	0.001	0.001	0.002	22.81	0.0008	0.0003	22.91
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	0.01	0.04	0.24	3.90E-04	0.027	0.001	0.028	0.012	0.001	0.013	37.85	0.0014	0.0004	38.01
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	0.04	0.37	1.24	1.87E-03	0.047	0.007	0.054	0.008	0.006	0.015	173.71	0.0065	0.0022	174.52
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	0.01	0.07	0.36	6.58E-04	0.069	0.002	0.071	0.032	0.002	0.034	64.03	0.0024	0.0008	64.32
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	0.01	0.08	0.34	7.54E-04	0.061	0.002	0.062	0.024	0.002	0.026	73.13	0.0021	0.0035	74.22
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	0.01	0.07	0.30	5.26E-04	0.015	0.003	0.018	0.003	0.003	0.006	47.92	0.0016	0.0010	48.24
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	0.03	0.05	0.16	2.46E-04	0.006	0.001	0.007	0.001	0.001	0.002	22.81	0.0008	0.0003	22.91
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	0.01	0.04	0.24	3.90E-04	0.027	0.001	0.028	0.012	0.001	0.013	37.85	0.0014	0.0004	38.01
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	0.04	0.37	1.24	1.87E-03	0.047	0.007	0.054	0.008	0.006	0.015	173.71	0.0065	0.0022	174.52
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	0.01	0.07	0.36	6.58E-04	0.069	0.002	0.071	0.032	0.002	0.034	64.03	0.0024	0.0008	64.32
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	0.01	0.11	0.35	1.01E-03	0.075	0.002	0.078	0.027	0.002	0.029	97.56	0.0022	0.0074	99.80
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	0.01	0.07	0.30	5.26E-04	0.015	0.003	0.018	0.003	0.003	0.006	47.92	0.0016	0.0010	48.24
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	0.02	0.05	0.16	2.46E-04	0.006	0.001	0.007	0.001	0.001	0.002	22.81	0.0008	0.0003	22.91
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	0.01	0.04	0.24	3.90E-04	0.027	0.001	0.028	0.012	0.001	0.013	37.85	0.0014	0.0004	38.01
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	0.10	0.83	2.80	4.22E-03	0.106	0.016	0.122	0.019	0.015	0.034	391.49	0.0147	0.0050	393.34
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	0.02	0.14	0.45	7.78E-04	0.024	0.002	0.026	0.004	0.002	0.007	72.56	0.0024	0.0022	73.28
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	0.03	0.32	1.30	3.32E-03	0.161	0.008	0.169	0.048	0.007	0.056	322.10	0.0088	0.0181	327.72
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	0.01	0.16	0.49	1.43E-03	0.076	0.003	0.079	0.012	0.003	0.015	137.90	0.0031	0.0102	141.03
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	0.41	0.27	0.91	1.38E-03	0.035	0.005	0.039	0.006	0.004	0.011	127.92	0.0048	0.0016	128.51
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	0.08	0.08	0.41	6.90E-04	0.052	0.003	0.054	0.022	0.002	0.025	66.92	0.0025	0.0007	67.20
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	0.05	0.34	1.28	2.08E-03	0.051	0.009	0.060	0.010	0.008	0.018	197.24	0.0067	0.0056	199.07
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	0.06	0.48	1.79	2.91E-03	0.072	0.012	0.084	0.013	0.011	0.025	276.14	0.0094	0.0078	278.70
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	0.05	0.34	1.28	2.08E-03	0.051	0.009	0.060	0.010	0.008	0.018	197.24	0.0067	0.0056	199.07
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	0.06	0.48	1.79	2.91E-03	0.072	0.012	0.084	0.013	0.011	0.025	276.14	0.0094	0.0078	278.70
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	0.11	0.83	2.80	4.19E-03	0.105	0.019	0.124	0.019	0.018	0.037	388.59	0.0147	0.0051	390.47
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	0.16	1.85	5.09	1.65E-02	1.587	0.041	1.628	0.550	0.040	0.589	1587.51	0.0337	0.1253	1625.68
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	0.30	2.27	13.02	2.84E-02	2.017	0.064	2.081	0.836	0.063	0.899	2766.95	0.0899	0.1015	2799.44
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	0.73	1.25	2.37	1.11E-02	0.605	0.024	0.629	0.110	0.023	0.133	1060.34	0.0122	0.1222	1097.05
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	0.04	0.30	0.92	1.60E-03	0.050	0.007	0.056	0.009	0.006	0.015	148.98	0.0048	0.0051	150.63
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	0.05	0.31	2.14	3.78E-03	0.160	0.010	0.171	0.060	0.010	0.070	368.60	0.0146	0.0038	370.11
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	0.17	0.48	3.10	6.03E-03	0.112	0.014	0.126	0.022	0.014	0.036	586.22	0.0208	0.0130	590.60
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	0.01	0.09	0.30	4.61E-04	0.011	0.002	0.013	0.002	0.002	0.004	42.77	0.0016	0.0007	43.01
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	0.03	0.13	0.70	1.14E-03	0.076	0.005	0.081	0.034	0.004	0.038	110.69	0.0042	0.0014	111.21
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	0.35	2.90	11.31	2.87E-02	1.774	0.092	1.866	0.306	0.088	0.394	2733.21	0.0785	0.1387	2776.50
					Total	14.56	117.20	379.37	0.84	27.01	2.94	29.96	6.00	2.80	8.79	79387.72	2.25	4.01	80639.98

TBM Electricity Consumption	138024
Portable Office Electricity Consumpt	77.3
Alternative Total	**218,741.5**
30 - Year Amortization	**7,291.4**

Notes:

1. Global warming potentials based on IPCC AR4, consistent with CARB emission inventory methods.
2. Alternative 1 would not include tunneling, therefore a tunnel boring machine was not required.

Sepulveda Transit Corridor Project - ALTERNATIVE 3

Regional (Offsite + Onsite) Emissions by Construction Year

		Annual Emissions (tons per year)										Annual Emissions (metric tons)			
Year	Construction Year	ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
2029	Year 1	1.428	10.547	37.242	0.057	1.458	0.247	1.705	0.292	0.232	0.525	5361.51	0.20	0.09	5391.92
2030	Year 2	1.732	13.117	44.138	0.077	2.862	0.299	3.161	0.691	0.283	0.974	7173.03	0.24	0.21	7241.26
2031	Year 3	1.991	16.198	57.347	0.106	4.790	0.370	5.160	1.378	0.352	1.730	9993.23	0.33	0.33	10100.05
2032	Year 4	3.578	26.361	84.897	0.194	6.071	0.659	6.730	1.187	0.627	1.813	18373.51	0.50	1.00	18684.96
2033	Year 5	2.635	23.298	68.679	0.188	6.139	0.605	6.743	1.323	0.576	1.899	17862.85	0.43	1.20	18231.91
2034	Year 6	1.748	15.151	45.008	0.120	3.420	0.404	3.824	0.683	0.384	1.067	11373.66	0.28	0.73	11598.36
2035	Year 7	0.952	9.146	27.514	0.072	1.973	0.244	2.217	0.384	0.232	0.616	6812.18	0.17	0.42	6942.42
2036	Year 8	0.384	2.618	11.152	0.020	0.224	0.090	0.314	0.044	0.085	0.129	1870.80	0.07	0.02	1879.72
2037	Year 9	0.117	0.764	3.396	0.006	0.077	0.027	0.104	0.015	0.026	0.041	566.96	0.02	0.01	569.36
Totals		**14.56**	**117.20**	**379.37**	**0.84**	**27.01**	**2.94**	**29.96**	**6.00**	**2.80**	**8.79**	**79387.72**	**2.25**	**4.01**	**80639.98**
												TBM Electricity Consumption			138,024.2
												Portable Office Electricity Consumption			77.3
												Alternative Total			**218,741.5**
												30 - Year Amortization			**7,291.4**

*TBM would not be required for Alternative 1.

Sepulveda Transit Corridor Project - ALTERNATIVE 3

Schedule/Phasing[1]						Construction Materials[1]						Worker Trips[2,3]			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Workday Duration (Hours per day)[7]	Total Demo Debris (tons)	Excavation Quantity (CY)	Soil Movement Quantity (CY)	Concrete Quantity (CY)	Paving Area (SF)	Building Area (SF)	Trip Type	Workers per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	-	-	-	-	-	-	Worker	10	20	18.50
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	14816	-	-	-	-	-	Worker	10	20	18.50
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	-	124084	124084	174827	-	-	Worker	88	176	18.50
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	-	-	-	-	-	-	Worker	12	24	18.50
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	-	-	-	-	-	-	Worker	8	16	18.50
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	-	-	-	-	-	-	Worker	10	20	18.50
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	485	-	-	-	-	-	Worker	10	20	18.50
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	-	136100	136100	24200	-	-	Worker	18	36	18.50
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	-	705315	705315	-	-	-	Worker	14	28	18.50
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	-	-	-	-	-	-	Worker	14	28	18.50
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	-	-	-	-	-	-	Worker	10	20	18.50
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	287	-	-	-	-	-	Worker	10	20	18.50
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (CI	6/1/2032	10/31/2033	5	370	10	-	2406	2406	3389	-	-	Worker	18	36	18.50
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Assen	11/1/2033	11/30/2033	5	22	10	-	-	-	-	-	-	Worker	14	28	18.50
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	-	-	-	-	-	-	Worker	14	28	18.50
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	-	-	-	-	-	-	Worker	10	20	18.50
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2139	-	-	-	-	-	Worker	10	20	18.50
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	-	17918	17918	25246	-	-	Worker	26	52	18.50
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	-	-	-	-	-	-	Worker	12	24	18.50
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	-	-	-	-	-	-	Worker	8	16	18.50
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	-	-	-	-	-	-	Worker	10	20	18.5
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	273	-	-	-	-	-	Worker	10	20	18.5
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	-	580	580	879	-	-	Worker	14	28	18.5
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	-	-	-	-	-	-	Worker	12	24	18.5
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	-	-	-	-	-	-	Worker	8	16	18.5
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	-	-	-	-	-	-	Worker	10	20	18.5
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	135	-	-	-	-	-	Worker	10	20	18.5
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	-	600	600	785	-	-	Worker	14	28	18.5
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	-	-	-	-	-	-	Worker	12	24	18.5
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	-	-	-	-	-	-	Worker	8	16	18.5
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	-	-	-	-	-	-	Worker	10	20	18.5
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	196	-	-	-	-	-	Worker	10	20	18.5
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	-	630	630	828	-	-	Worker	14	28	18.5
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	-	-	-	-	-	-	Worker	12	24	18.5
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	-	-	-	-	-	-	Worker	8	16	18.5
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	-	-	-	-	-	-	Worker	10	20	18.5
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	133	-	-	-	-	-	Worker	10	20	18.5
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	-	580	580	785	-	-	Worker	14	28	18.5
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	-	-	-	-	-	-	Worker	12	24	18.5
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	-	-	-	-	-	-	Worker	8	16	18.5
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	-	-	-	-	-	-	Worker	10	20	18.5
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	153	-	-	-	-	-	Worker	10	20	18.5
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	-	590	590	800	-	-	Worker	14	28	18.5
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	-	-	-	-	-	-	Worker	12	24	18.5
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	-	-	-	-	-	-	Worker	8	16	18.5
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	-	-	-	-	-	-	Worker	10	20	18.5
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	9650	-	-	-	-	-	Worker	10	20	18.5
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	-	258815	258815	-	-	-	Worker	14	28	18.5
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	-	-	-	51700	-	-	Worker	12	24	18.5
UCLA Gateway MRT Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	-	-	-	-	-	-	Worker	8	16	18.5
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	-	-	-	-	-	-	Worker	10	20	18.5
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	1055	-	-	-	-	-	Worker	10	20	18.5
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	-	431100	431100	-	-	-	Worker	14	28	18.5
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	-	-	-	84200	-	-	Worker	12	24	18.5
Wilshire Blvd-Metro D Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	-	-	-	-	-	-	Worker	8	16	18.5

Sepulveda Transit Corridor Project - ALTERNATIVE 3

Schedule/Phasing[1]						Material/Soil Haul Trucks[5]				Precast Concrete Structures Haul Trucks[5]			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Workday Duration (Hours per day)[7]	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Haul	-	-	25.0	Haul	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Haul	6	12	25.0	Haul	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	Haul	16	32	25.0	Haul	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	Haul	-	-	25.0	Haul	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	Haul	-	-	25.0	Haul	-	-	-
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	Haul	-	-	25.0	Haul	-	-	-
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	Haul	2	4	25.0	Haul	-	-	-
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	Haul	90	180	25.0	Haul	-	-	-
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	Haul	132	264	25.0	Haul	20	40	60
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	Haul	-	-	25.0	Haul	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Haul	-	-	25.0	Haul	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Haul	2	4	25.0	Haul	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (CI	6/1/2032	10/31/2033	5	370	10	Haul	2	4	25.0	Haul	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Assen	11/1/2033	11/30/2033	5	22	10	Haul	-	-	25.0	Haul	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	Haul	-	-	25.0	Haul	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Haul	-	-	25.0	Haul	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Haul	2	4	25.0	Haul	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	Haul	10	20	25.0	Haul	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	Haul	-	-	25.0	Haul	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	Haul	-	-	25.0	Haul	-	-	-
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Haul	-	-	25.0	Haul	-	-	-
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Haul	2	4	25.0	Haul	-	-	-
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Haul	2	4	25.0	Haul	-	-	-
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	Haul	-	-	25.0	Haul	-	-	-
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	Haul	-	-	25.0	Haul	-	-	-
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Haul	-	-	25.0	Haul	-	-	-
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Haul	2	4	25.0	Haul	-	-	-
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Haul	2	4	25.0	Haul	-	-	-
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	Haul	-	-	25.0	Haul	-	-	-
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	Haul	-	-	25.0	Haul	-	-	-
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Haul	-	-	25.0	Haul	-	-	-
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Haul	2	4	25.0	Haul	-	-	-
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	Haul	2	4	25.0	Haul	-	-	-
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	Haul	-	-	25.0	Haul	-	-	-
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	Haul	-	-	25.0	Haul	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Haul	-	-	25.0	Haul	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Haul	2	4	25.0	Haul	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	Haul	2	4	25.0	Haul	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	Haul	-	-	25.0	Haul	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	Haul	-	-	25.0	Haul	-	-	-
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Haul	-	-	25.0	Haul	-	-	-
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Haul	2	4	25.0	Haul	-	-	-
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Haul	2	4	25.0	Haul	-	-	-
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	Haul	-	-	25.0	Haul	-	-	-
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	Haul	-	-	25.0	Haul	-	-	-
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	Haul	-	-	25.0	Haul	-	-	-
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	Haul	4	8	25.0	Haul	-	-	-
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	Haul	50	100	25.0	Haul	-	-	-
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	Haul	-	-	25.0	Haul	-	-	-
UCLA Gateway MRT Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	Haul	-	-	25.0	Haul	-	-	-
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	Haul	-	-	25.0	Haul	-	-	-
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	Haul	2	4	25.0	Haul	-	-	-
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	Haul	84	168	25.0	Haul	-	-	-
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	Haul	-	-	25.0	Haul	-	-	-
Wilshire Blvd-Metro D Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	Haul	-	-	25.0	Haul	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 3

Schedule/Phasing[1]						Concrete Truck Deliveries[4]				Water Trucks[6]			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Workday Duration (Hours per day)[7]	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Concrete	-	-	10	Water	3	6	2.0
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Concrete	-	-	10	Water	3	6	2.0
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	Concrete	24	48	10	Water	3	6	2.0
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	Concrete	-	-	10	Water	3	6	2.0
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	Concrete	-	-	10	Water	3	6	2.0
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	Concrete	-	-	10	Water	3	6	2.0
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	Concrete	-	-	10	Water	3	6	2.0
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	Concrete	18	36	10	Water	3	6	2.0
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	Concrete	-	-	10	Water	3	6	2.0
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	Concrete	-	-	10	Water	3	6	2.0
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Concrete	-	-	10	Water	3	6	2.0
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Concrete	-	-	10	Water	3	6	2.0
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (CI	6/1/2032	10/31/2033	5	370	10	Concrete	2	4	10	Water	3	6	2.0
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Assen	11/1/2033	11/30/2033	5	22	10	Concrete	-	-	10	Water	3	6	2.0
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	Concrete	-	-	10	Water	3	6	2.0
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Concrete	-	-	10	Water	3	6	2.0
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Concrete	-	-	10	Water	3	6	2.0
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	Concrete	14	28	10	Water	3	6	2.0
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	Concrete	-	-	10	Water	3	6	2.0
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	Concrete	-	-	10	Water	3	6	2.0
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Concrete	-	-	10.20	Water	3	6	2.0
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Concrete	-	-	10.20	Water	3	6	2.0
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Concrete	2	4	10.20	Water	3	6	2.0
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	Concrete	-	-	10.20	Water	3	6	2.0
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	Concrete	-	-	10.20	Water	3	6	2.0
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Concrete	-	-	10.20	Water	3	6	2.0
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Concrete	-	-	10.20	Water	3	6	2.0
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Concrete	2	4	10.20	Water	3	6	2.0
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	Concrete	-	-	10.20	Water	3	6	2.0
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	Concrete	-	-	10.20	Water	3	6	2.0
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Concrete	-	-	10.20	Water	3	6	2.0
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Concrete	-	-	10.20	Water	3	6	2.0
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	Concrete	2	4	10.20	Water	3	6	2.0
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	Concrete	-	-	10.20	Water	3	6	2.0
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	Concrete	-	-	10.20	Water	3	6	2.0
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Concrete	-	-	10.20	Water	3	6	2.0
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Concrete	-	-	10.20	Water	3	6	2.0
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	Concrete	2	4	10.20	Water	3	6	2.0
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	Concrete	-	-	10.20	Water	3	6	2.0
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	Concrete	-	-	10.20	Water	3	6	2.0
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Concrete	-	-	10.20	Water	3	6	2.0
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Concrete	-	-	10.20	Water	3	6	2.0
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Concrete	2	4	10.20	Water	3	6	2.0
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	Concrete	-	-	10.20	Water	3	6	2.0
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	Concrete	-	-	10.20	Water	3	6	2.0
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	Concrete	-	-	10.20	Water	3	6	2.0
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	Concrete	-	-	10.20	Water	3	6	2.0
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	Concrete	-	-	10.20	Water	3	6	2.0
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	Concrete	12	24	10.20	Water	3	6	2.0
UCLA Gateway MRT Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	Concrete	-	-	10.20	Water	3	6	2.0
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	Concrete	-	-	10.20	Water	3	6	2.0
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	Concrete	-	-	10.20	Water	3	6	2.0
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	Concrete	-	-	10.20	Water	3	6	2.0
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	Concrete	18	36	10.20	Water	3	6	2.0
Wilshire Blvd-Metro D Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	Concrete	-	-	10.20	Water	3	6	2.0

Sepulveda Transit Corridor Project - ALTERNATIVE 3

Schedule/Phasing[1] | Construction Materials[1] | Worker Trips[2,3]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Workday Duration (Hours per day)[7]	Total Demo Debris (tons)	Excavation Quantity (CY)	Soil Movement Quantity (CY)	Concrete Quantity (CY)	Paving Area (SF)	Building Area (SF)	Trip Type	Workers per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	-	-	-	-	-	-	Worker	10	20	18.5
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	185	-	-	-	-	-	Worker	10	20	18.5
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	-	595	595	820	-	-	Worker	14	28	18.5
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	-	-	-	-	-	-	Worker	12	24	18.5
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	-	-	-	-	-	-	Worker	8	16	18.5
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	-	-	-	-	-	-	Worker	10	20	18.5
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	193	-	-	-	-	-	Worker	10	20	18.5
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	-	580	580	825	-	-	Worker	14	28	18.5
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	-	-	-	-	-	-	Worker	12	24	18.5
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	-	-	-	-	-	-	Worker	8	16	18.5
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	-	-	-	-	-	-	Worker	10	20	18.5
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	-	-	-	-	-	-	Worker	8	16	18.5
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	-	1763	1763	-	-	-	Worker	8	16	18.5
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	-	-	-	243	-	-	Worker	18	36	18.5
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	-	-	-	-	-	4375	Worker	10	20	18.5
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	-	-	-	-	-	-	Worker	14	28	18.5
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	-	-	-	-	-	-	Worker	10	20	18.5
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	-	-	-	-	-	-	Worker	8	16	18.5
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	-	1763	1763	-	-	-	Worker	8	16	18.5
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	-	-	-	243	-	-	Worker	18	36	18.5
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	-	-	-	-	-	4375	Worker	10	20	18.5
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	-	-	-	-	-	-	Worker	14	28	18.5
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	-	-	-	-	-	-	Worker	10	20	18.5
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	-	-	-	-	-	-	Worker	8	16	18.5
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	-	5333	5333	-	-	-	Worker	8	16	18.5
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	-	-	-	129	-	-	Worker	18	36	18.5
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	-	-	-	-	-	2325	Worker	10	20	18.5
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	-	-	-	-	-	-	Worker	14	28	18.5
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	-	-	-	-	-	-	Worker	10	20	18.5
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	163	-	-	-	-	-	Worker	10	20	18.5
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	-	27818	27818	-	-	-	Worker	14	28	18.5
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	-	-	-	20200	-	-	Worker	12	24	18.5
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	-	-	-	-	-	81000	Worker	10	20	18.5
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	-	-	-	-	395000	-	Worker	12	24	18.5
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	13	550	550	25	1000	-	Worker	14	28	18.5
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	13	570	570	25	1000	-	Worker	14	28	18.5
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	13	540	540	25	1000	-	Worker	14	28	18.5
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	13	600	600	25	1000	-	Worker	14	28	18.5
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	-	-	-	-	-	-	Worker	10	20	18.5
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	40000	-	-	-	-	-	Worker	26	52	18.5
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	-	70000	70000	-	-	-	Worker	38	76	18.5
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	-	-	-	60000	3888000	-	Worker	18	36	18.5
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	823	-	-	-	-	-	Worker	10	12	25.0
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	-	-	54450	-	-	-	Worker	14	12	25.0
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	-	-	-	-	-	20000	Worker	24	60	25.0
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	-	-	667	-	3000	-	Worker	10	12	25.0
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	-	-	-	-	43560	-	Worker	14	12	25.0
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	-	-	-	82459	-	-	Worker	14	12	25.0

Notes:

1. Phasing and material data provided by LASRE team and based on structural designs.
2. Number of workers evaluated using CalEEMod methodology of 1.25 workers piece of equipment.
3. Worker trip length based on CalEEMod default value with exception of precast yard, data provided by LASRE team.
4. Concrete truck trip length based on CalEEMod default value for vendors.
5. Haul trips lengths based on project-specific data.
6. It was assumed water trucks would make 3 passes per day for ground/soil disturbing activities.
7. Daily workday hours account for safety meetings and lunch breaks.

Sepulveda Transit Corridor Project - ALTERNATIVE 3

Schedule/Phasing[1]						Material/Soil Haul Trucks[5]				Precast Concrete Structures Haul Trucks[5]			
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Workday Duration (Hours per day)[7]**	**Trip Type**	**Round Trips per Day**	**Total One-Way Trips per Day**	**One-Way Trip Length (mi)**	**Trip Type**	**Round Trips per Day**	**Total One-Way Trips per Day**	**One-Way Trip Length (mi)**
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Haul	-	-	25.0	Haul	-	-	-
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Haul	2	4	25.0	Haul	-	-	-
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Haul	2	4	25.0	Haul	-	-	-
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	Haul	-	-	25.0	Haul	-	-	-
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	Haul	-	-	25.0	Haul	-	-	-
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Haul	-	-	25.0	Haul	-	-	-
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Haul	2	4	25.0	Haul	-	-	-
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Haul	2	4	25.0	Haul	-	-	-
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	Haul	-	-	25.0	Haul	-	-	-
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	Haul	-	-	25.0	Haul	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Haul	-	-	25.0	Haul	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Haul	-	-	25.0	Haul	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Haul	6	12	25.0	Haul	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	Haul	-	-	25.0	Haul	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	Haul	-	-	25.0	Haul	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	Haul	-	-	25.0	Haul	-	-	-
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Haul	-	-	25.0	Haul	-	-	-
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Haul	-	-	25.0	Haul	-	-	-
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Haul	6	12	25.0	Haul	-	-	-
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	Haul	-	-	25.0	Haul	-	-	-
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	Haul	-	-	25.0	Haul	-	-	-
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	Haul	-	-	25.0	Haul	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Haul	-	-	25.0	Haul	-	-	-
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Haul	-	-	25.0	Haul	-	-	-
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Haul	14	28	25.0	Haul	-	-	-
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	Haul	-	-	25.0	Haul	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	Haul	-	-	25.0	Haul	-	-	-
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	Haul	-	-	25.0	Haul	-	-	-
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	Haul	-	-	25.0	Haul	-	-	-
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Haul	2	4	25.0	Haul	-	-	-
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	Haul	22	44	25.0	Haul	-	-	-
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	Haul	-	-	25.0	Haul	-	-	-
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	Haul	-	-	25.0	Haul	-	-	-
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	Haul	-	-	25.0	Haul	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Haul	2	4	25.0	Haul	-	-	-
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Haul	2	4	25.0	Haul	-	-	-
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Haul	2	4	25.0	Haul	-	-	-
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Haul	2	4	25.0	Haul	-	-	-
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	Haul	-	-	25.0	Haul	-	-	-
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	Haul	46	92	25.0	Haul	-	-	-
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	Haul	36	72	25.0	Haul	-	-	-
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	Haul	34	68	25.0	Haul	-	-	-
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	Haul	2	4	25.0	Haul	-	-	-
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	Haul	-	-	25.0	Haul	-	-	-
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	Haul	-	-	25.0	Haul	-	-	-
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	Haul	-	-	25.0	Haul	-	-	-
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	Haul	-	-	25.0	Haul	-	-	-
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	Haul	2	4	25.0	Haul	4	8	69

Notes:

1. Phasing and material data provided by LASRE team and based on structural designs.
2. Number of workers evaluated using CalEEMod methodology of 1.25 workers piece of equipment.
3. Worker trip length based on CalEEMod default value with exception of precast yard, data provided by LASRE team.
4. Concrete truck trip length based on CalEEMod default value for vendors.
5. Haul trips lengths based on project-specific data.
6. It was assumed water trucks would make 3 passes per day for ground/soil disturbing activities.
7. Daily workday hours account for safety meetings and lunch breaks.

Sepulveda Transit Corridor Project - ALTERNATIVE 3

Schedule/Phasing[1]						Concrete Truck Deliveries[4]				Water Trucks[6]			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Workday Duration (Hours per day)[7]	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Concrete	-	-	10.20	Water	3	6	2.0
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Concrete	-	-	10.20	Water	3	6	2.0
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Concrete	2	4	10.20	Water	3	6	2.0
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	Concrete	-	-	10.20	Water	3	6	2.0
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	Concrete	-	-	10.20	Water	3	6	2.0
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Concrete	-	-	10.20	Water	3	6	2.0
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Concrete	-	-	10.20	Water	3	6	2.0
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Concrete	2	4	10.20	Water	3	6	2.0
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	Concrete	-	-	10.20	Water	3	6	2.0
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	Concrete	-	-	10.20	Water	3	6	2.0
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Concrete	-	-	10.2	Water	3	6	2.0
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Concrete	-	-	10.2	Water	3	6	2.0
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Concrete	-	-	10.2	Water	3	6	2.0
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	Concrete	2	4	10.2	Water	3	6	2.0
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	Concrete	-	-	10.2	Water	3	6	2.0
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	Concrete	-	-	10.2	Water	3	6	2.0
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Concrete	-	-	10.2	Water	3	6	2.0
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Concrete	-	-	10.2	Water	3	6	2.0
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Concrete	-	-	10.2	Water	3	6	2.0
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	Concrete	2	4	10.2	Water	3	6	2.0
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	Concrete	-	-	10.2	Water	3	6	2.0
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	Concrete	-	-	10.2	Water	3	6	2.0
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Concrete	-	-	10.2	Water	3	6	2.0
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Concrete	-	-	10.2	Water	3	6	2.0
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Concrete	-	-	10.2	Water	3	6	2.0
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	Concrete	2	4	10.2	Water	3	6	2.0
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	Concrete	-	-	10.2	Water	3	6	2.0
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	Concrete	-	-	10.2	Water	3	6	2.0
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	Concrete	-	-	10.2	Water	3	6	2.0
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Concrete	-	-	10.2	Water	3	6	2.0
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	Concrete	-	-	10.2	Water	3	6	2.0
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	Concrete	52	104	10.2	Water	3	6	2.0
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	Concrete	-	-	10.2	Water	3	6	2.0
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	Concrete	-	-	10.2	Water	3	6	2.0
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Concrete	2	4	10.2	Water	3	6	2.0
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Concrete	2	4	10.2	Water	3	6	2.0
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Concrete	2	4	10.2	Water	3	6	2.0
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Concrete	2	4	10.2	Water	3	6	2.0
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	Concrete	-	-	10	Water	3	6	2.0
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	Concrete	-	-	10	Water	3	6	2.0
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	Concrete	-	-	10	Water	3	6	2.0
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	Concrete	26	52	10	Water	3	6	2.0
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	Concrete	-	-	10	Water	3	6	5.0
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	Concrete	-	-	10	Water	3	6	5.0
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	Concrete	16	31	10	Water	3	6	5.0
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	Concrete	-	-	10	Water	3	6	5.0
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	Concrete	-	-	10	Water	3	6	5.0
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	Concrete	-	-	10	Water	3	6	5.0

Notes:

1. Phasing and material data provided by LASRE team and based on structural designs.
2. Number of workers evaluated using CalEEMod methodology of 1.25 workers piece of equipment.
3. Worker trip length based on CalEEMod default value with exception of precast yard, data provided by LASRE team.
4. Concrete truck trip length based on CalEEMod default value for vendors.
5. Haul trips lengths based on project-specific data.
6. It was assumed water trucks would make 3 passes per day for ground/soil disturbing activities.
7. Daily workday hours account for safety meetings and lunch breaks.

Sepulveda Transit Corridor Project - ALTERNATIVE 3

Off-Road Equipment Fleet

Phase Name	Equipment Type	Quantity	Usage (Hrs/day)
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	Medium Excavator	1	8.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	Small Excavator	1	8.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	Motor Grader	1	8.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	Wheel Loader	1	8.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	Pavement Saw	1	8.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	Small Compactor	1	8.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	Telescoping Fork	1	8.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	Medium Excavator	1	8.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	Small Excavator	1	8.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	Motor Grader	1	8.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	Wheel Loader	1	8.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	Pavement Saw	1	8.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	Small Compactor	1	8.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	Telescoping Fork	1	8.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	Oscillating Drill Rig	7	8.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	Crawler Crane	7	8.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	Hydraulic Crane	7	8.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	Telescoping Fork	14	8.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	Wheel Loader	7	8.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	Med. Excavator	7	8.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	Concrete Pump	7	8.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	Generator	14	8.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	Crawler Crane	1	8.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	Hydraulic Crane	1	8.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	Telescoping Fork	2	8.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	Wheel Loader	1	8.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	Med. Excavator	1	8.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	Concrete Pump	1	8.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	Generator	2	8.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	Hydraulic Crane	1	8.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	Telescoping Fork	2	8.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	Generator	2	8.5
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	Medium Excavator	1	17
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	Small Excavator	1	17
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	Motor Grader	1	17
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	Wheel Loader	1	17
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	Pavement Saw	1	17
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	Small Compactor	1	17
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	Telescoping Fork	1	17
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	Medium Excavator	1	17
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	Small Excavator	1	17
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	Motor Grader	1	17
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	Wheel Loader	1	17
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	Pavement Saw	1	17
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	Small Compactor	1	17
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	Telescoping Fork	1	17
MRT Segment 6-Getty Center to Federal Building-Launch Box	Drill Rig	1	17
MRT Segment 6-Getty Center to Federal Building-Launch Box	Track Loader	2	17
MRT Segment 6-Getty Center to Federal Building-Launch Box	Telescoping Fork	3	17
MRT Segment 6-Getty Center to Federal Building-Launch Box	Crawler Crane	1	17
MRT Segment 6-Getty Center to Federal Building-Launch Box	Mini Excavator	1	17
MRT Segment 6-Getty Center to Federal Building-Launch Box	Hydraulic Crane	1	17
MRT Segment 6-Getty Center to Federal Building-Launch Box	Wheel Loader	1	17
MRT Segment 6-Getty Center to Federal Building-Launch Box	Concrete Pump	1	17
MRT Segment 6-Getty Center to Federal Building-Launch Box	Generator	3	17
MRT Segment 6-Getty Center to Federal Building-Tunneling	Locomotive	1	17
MRT Segment 6-Getty Center to Federal Building-Tunneling	Telescoping Fork	2	17
MRT Segment 6-Getty Center to Federal Building-Tunneling	Crawler Crane	1	17
MRT Segment 6-Getty Center to Federal Building-Tunneling	Wheel Loader	1	17
MRT Segment 6-Getty Center to Federal Building-Tunneling	Generator	2	17
MRT Segment 6-Getty Center to Federal Building-Tunneling	TBM	1	17
MRT Segment 6-Getty Center to Federal Building-Tunneling	Manlift	3	17

Sepulveda Transit Corridor Project - ALTERNATIVE 3

Off-Road Equipment Fleet

Phase Name	Equipment Type	Quantity	Usage (Hrs/day)
MRT Segment 6-Getty Center to Federal Building-Finishing Work	Telescoping Fork	3	17
MRT Segment 6-Getty Center to Federal Building-Finishing Work	Crawler Crane	1	17
MRT Segment 6-Getty Center to Federal Building-Finishing Work	Mini Excavator	1	17
MRT Segment 6-Getty Center to Federal Building-Finishing Work	Hydraulic Crane	1	17
MRT Segment 6-Getty Center to Federal Building-Finishing Work	Wheel Loader	1	17
MRT Segment 6-Getty Center to Federal Building-Finishing Work	Concrete Pump	1	17
MRT Segment 6-Getty Center to Federal Building-Finishing Work	Generator	3	17
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	Medium Excavator	1	8.5
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	Small Excavator	1	8.5
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	Motor Grader	1	8.5
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	Wheel Loader	1	8.5
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	Pavement Saw	1	8.5
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	Small Compactor	1	8.5
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	Telescoping Fork	1	8.5
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	Medium Excavator	1	8.5
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	Small Excavator	1	8.5
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	Motor Grader	1	8.5
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	Wheel Loader	1	8.5
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	Pavement Saw	1	8.5
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	Small Compactor	1	8.5
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	Telescoping Fork	1	8.5
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (CIDH)	Drill Rig	1	8.5
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (CIDH)	Track Loader	2	8.5
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (CIDH)	Telescoping Fork	3	8.5
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (CIDH)	Crawler Crane	1	8.5
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (CIDH)	Mini Excavator	1	8.5
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (CIDH)	Hydraulic Crane	1	8.5
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (CIDH)	Wheel Loader	1	8.5
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (CIDH)	Concrete Pump	1	8.5
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (CIDH)	Generator	3	8.5
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Assembly	Hydraulic Crane	1	8.5
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Assembly	Telescoping Fork	2	8.5
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Assembly	Crawler Crane	1	8.5
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Assembly	Wheel Loader	1	8.5
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Assembly	Generator	2	8.5
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Assembly	Manlift	3	8.5
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	Telescoping Fork	3	8.5
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	Crawler Crane	1	8.5
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	Mini Excavator	1	8.5
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	Hydraulic Crane	1	8.5
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	Wheel Loader	1	8.5
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	Concrete Pump	1	8.5
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	Generator	3	8.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	Medium Excavator	1	8.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	Small Excavator	1	8.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	Motor Grader	1	8.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	Wheel Loader	1	8.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	Pavement Saw	1	8.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	Small Compactor	1	8.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	Telescoping Fork	1	8.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	Medium Excavator	1	8.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	Small Excavator	1	8.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	Motor Grader	1	8.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	Wheel Loader	1	8.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	Pavement Saw	1	8.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	Small Compactor	1	8.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	Telescoping Fork	1	8.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	Oscillating Drill Rig	2	8.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	Crawler Crane	2	8.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	Hydraulic Crane	2	8.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	Telescoping Fork	4	8.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	Wheel Loader	2	8.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	Med. Excavator	2	8.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	Concrete Pump	2	8.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	Generator	4	8.5

Sepulveda Transit Corridor Project - ALTERNATIVE 3

Off-Road Equipment Fleet

Phase Name	Equipment Type	Quantity	Usage (Hrs/day)
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	Crawler Crane	1	8.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	Hydraulic Crane	1	8.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	Telescoping Fork	2	8.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	Wheel Loader	1	8.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	Med. Excavator	1	8.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	Concrete Pump	1	8.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	Generator	2	8.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	Hydraulic Crane	1	8.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	Telescoping Fork	2	8.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	Generator	2	8.5
Van Nuys MRT Station-Utility Relocations	Medium Excavator	1	8.5
Van Nuys MRT Station-Utility Relocations	Small Excavator	1	8.5
Van Nuys MRT Station-Utility Relocations	Motor Grader	1	8.5
Van Nuys MRT Station-Utility Relocations	Wheel Loader	1	8.5
Van Nuys MRT Station-Utility Relocations	Pavement Saw	1	8.5
Van Nuys MRT Station-Utility Relocations	Small Compactor	1	8.5
Van Nuys MRT Station-Utility Relocations	Telescoping Fork	1	8.5
Van Nuys MRT Station-Demolition/Site Preparation	Medium Excavator	1	8.5
Van Nuys MRT Station-Demolition/Site Preparation	Small Excavator	1	8.5
Van Nuys MRT Station-Demolition/Site Preparation	Motor Grader	1	8.5
Van Nuys MRT Station-Demolition/Site Preparation	Wheel Loader	1	8.5
Van Nuys MRT Station-Demolition/Site Preparation	Pavement Saw	1	8.5
Van Nuys MRT Station-Demolition/Site Preparation	Small Compactor	1	8.5
Van Nuys MRT Station-Demolition/Site Preparation	Telescoping Fork	1	8.5
Van Nuys MRT Station-Substructure Foundations (CIDH)	Oscillating Drill Rig	1	8.5
Van Nuys MRT Station-Substructure Foundations (CIDH)	Crawler Crane	1	8.5
Van Nuys MRT Station-Substructure Foundations (CIDH)	Hydraulic Crane	1	8.5
Van Nuys MRT Station-Substructure Foundations (CIDH)	Telescoping Fork	2	8.5
Van Nuys MRT Station-Substructure Foundations (CIDH)	Wheel Loader	1	8.5
Van Nuys MRT Station-Substructure Foundations (CIDH)	Med. Excavator	1	8.5
Van Nuys MRT Station-Substructure Foundations (CIDH)	Concrete Pump	1	8.5
Van Nuys MRT Station-Substructure Foundations (CIDH)	Generator	2	8.5
Van Nuys MRT Station-Precast Superstructure Assembly	Crawler Crane	1	8.5
Van Nuys MRT Station-Precast Superstructure Assembly	Hydraulic Crane	1	8.5
Van Nuys MRT Station-Precast Superstructure Assembly	Telescoping Fork	2	8.5
Van Nuys MRT Station-Precast Superstructure Assembly	Wheel Loader	1	8.5
Van Nuys MRT Station-Precast Superstructure Assembly	Med. Excavator	1	8.5
Van Nuys MRT Station-Precast Superstructure Assembly	Concrete Pump	1	8.5
Van Nuys MRT Station-Precast Superstructure Assembly	Generator	2	8.5
Van Nuys MRT Station-Finishing Work	Hydraulic Crane	1	8.5
Van Nuys MRT Station-Finishing Work	Telescoping Fork	2	8.5
Van Nuys MRT Station-Finishing Work	Generator	2	8.5
Sherman Way MRT Station-Utility Relocations	Medium Excavator	1	8.5
Sherman Way MRT Station-Utility Relocations	Small Excavator	1	8.5
Sherman Way MRT Station-Utility Relocations	Motor Grader	1	8.5
Sherman Way MRT Station-Utility Relocations	Wheel Loader	1	8.5
Sherman Way MRT Station-Utility Relocations	Pavement Saw	1	8.5
Sherman Way MRT Station-Utility Relocations	Small Compactor	1	8.5
Sherman Way MRT Station-Utility Relocations	Telescoping Fork	1	8.5
Sherman Way MRT Station-Demolition/Site Preparation	Medium Excavator	1	8.5
Sherman Way MRT Station-Demolition/Site Preparation	Small Excavator	1	8.5
Sherman Way MRT Station-Demolition/Site Preparation	Motor Grader	1	8.5
Sherman Way MRT Station-Demolition/Site Preparation	Wheel Loader	1	8.5
Sherman Way MRT Station-Demolition/Site Preparation	Pavement Saw	1	8.5
Sherman Way MRT Station-Demolition/Site Preparation	Small Compactor	1	8.5
Sherman Way MRT Station-Demolition/Site Preparation	Telescoping Fork	1	8.5
Sherman Way MRT Station-Substructure Foundations (CIDH)	Oscillating Drill Rig	1	8.5
Sherman Way MRT Station-Substructure Foundations (CIDH)	Crawler Crane	1	8.5
Sherman Way MRT Station-Substructure Foundations (CIDH)	Hydraulic Crane	1	8.5
Sherman Way MRT Station-Substructure Foundations (CIDH)	Telescoping Fork	2	8.5
Sherman Way MRT Station-Substructure Foundations (CIDH)	Wheel Loader	1	8.5
Sherman Way MRT Station-Substructure Foundations (CIDH)	Med. Excavator	1	8.5
Sherman Way MRT Station-Substructure Foundations (CIDH)	Concrete Pump	1	8.5
Sherman Way MRT Station-Substructure Foundations (CIDH)	Generator	2	8.5

Sepulveda Transit Corridor Project - ALTERNATIVE 3

Off-Road Equipment Fleet

Phase Name	Equipment Type	Quantity	Usage (Hrs/day)
Sherman Way MRT Station-Precast Superstructure Assembly	Crawler Crane	1	8.5
Sherman Way MRT Station-Precast Superstructure Assembly	Hydraulic Crane	1	8.5
Sherman Way MRT Station-Precast Superstructure Assembly	Telescoping Fork	2	8.5
Sherman Way MRT Station-Precast Superstructure Assembly	Wheel Loader	1	8.5
Sherman Way MRT Station-Precast Superstructure Assembly	Med. Excavator	1	8.5
Sherman Way MRT Station-Precast Superstructure Assembly	Concrete Pump	1	8.5
Sherman Way MRT Station-Precast Superstructure Assembly	Generator	2	8.5
Sherman Way MRT Station-Finishing Work	Hydraulic Crane	1	8.5
Sherman Way MRT Station-Finishing Work	Telescoping Fork	2	8.5
Sherman Way MRT Station-Finishing Work	Generator	2	8.5
Metro G Line MRT Station-Utility Relocations	Medium Excavator	1	8.5
Metro G Line MRT Station-Utility Relocations	Small Excavator	1	8.5
Metro G Line MRT Station-Utility Relocations	Motor Grader	1	8.5
Metro G Line MRT Station-Utility Relocations	Wheel Loader	1	8.5
Metro G Line MRT Station-Utility Relocations	Pavement Saw	1	8.5
Metro G Line MRT Station-Utility Relocations	Small Compactor	1	8.5
Metro G Line MRT Station-Utility Relocations	Telescoping Fork	1	8.5
Metro G Line MRT Station-Demolition/Site Preparation	Medium Excavator	1	8.5
Metro G Line MRT Station-Demolition/Site Preparation	Small Excavator	1	8.5
Metro G Line MRT Station-Demolition/Site Preparation	Motor Grader	1	8.5
Metro G Line MRT Station-Demolition/Site Preparation	Wheel Loader	1	8.5
Metro G Line MRT Station-Demolition/Site Preparation	Pavement Saw	1	8.5
Metro G Line MRT Station-Demolition/Site Preparation	Small Compactor	1	8.5
Metro G Line MRT Station-Demolition/Site Preparation	Telescoping Fork	1	8.5
Metro G Line MRT Station-Substructure Foundations (CIDH)	Oscillating Drill Rig	1	8.5
Metro G Line MRT Station-Substructure Foundations (CIDH)	Crawler Crane	1	8.5
Metro G Line MRT Station-Substructure Foundations (CIDH)	Hydraulic Crane	1	8.5
Metro G Line MRT Station-Substructure Foundations (CIDH)	Telescoping Fork	2	8.5
Metro G Line MRT Station-Substructure Foundations (CIDH)	Wheel Loader	1	8.5
Metro G Line MRT Station-Substructure Foundations (CIDH)	Med. Excavator	1	8.5
Metro G Line MRT Station-Substructure Foundations (CIDH)	Concrete Pump	1	8.5
Metro G Line MRT Station-Substructure Foundations (CIDH)	Generator	2	8.5
Metro G Line MRT Station-Precast Superstructure Assembly	Crawler Crane	1	8.5
Metro G Line MRT Station-Precast Superstructure Assembly	Hydraulic Crane	1	8.5
Metro G Line MRT Station-Precast Superstructure Assembly	Telescoping Fork	2	8.5
Metro G Line MRT Station-Precast Superstructure Assembly	Wheel Loader	1	8.5
Metro G Line MRT Station-Precast Superstructure Assembly	Med. Excavator	1	8.5
Metro G Line MRT Station-Precast Superstructure Assembly	Concrete Pump	1	8.5
Metro G Line MRT Station-Precast Superstructure Assembly	Generator	2	8.5
Metro G Line MRT Station-Finishing Work	Hydraulic Crane	1	8.5
Metro G Line MRT Station-Finishing Work	Telescoping Fork	2	8.5
Metro G Line MRT Station-Finishing Work	Generator	2	8.5
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	Medium Excavator	1	8.5
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	Small Excavator	1	8.5
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	Motor Grader	1	8.5
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	Wheel Loader	1	8.5
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	Pavement Saw	1	8.5
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	Small Compactor	1	8.5
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	Telescoping Fork	1	8.5
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	Medium Excavator	1	8.5
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	Small Excavator	1	8.5
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	Motor Grader	1	8.5
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	Wheel Loader	1	8.5
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	Pavement Saw	1	8.5
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	Small Compactor	1	8.5
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	Telescoping Fork	1	8.5
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	Oscillating Drill Rig	1	8.5
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	Crawler Crane	1	8.5
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	Hydraulic Crane	1	8.5
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	Telescoping Fork	2	8.5
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	Wheel Loader	1	8.5
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	Med. Excavator	1	8.5
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	Concrete Pump	1	8.5
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	Generator	2	8.5

Sepulveda Transit Corridor Project - ALTERNATIVE 3

Off-Road Equipment Fleet

Phase Name	Equipment Type	Quantity	Usage (Hrs/day)
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	Crawler Crane	1	8.5
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	Hydraulic Crane	1	8.5
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	Telescoping Fork	2	8.5
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	Wheel Loader	1	8.5
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	Med. Excavator	1	8.5
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	Concrete Pump	1	8.5
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	Generator	2	8.5
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	Hydraulic Crane	1	8.5
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	Telescoping Fork	2	8.5
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	Generator	2	8.5
Getty Center MRT Station-Utility Relocations	Medium Excavator	1	8.5
Getty Center MRT Station-Utility Relocations	Small Excavator	1	8.5
Getty Center MRT Station-Utility Relocations	Motor Grader	1	8.5
Getty Center MRT Station-Utility Relocations	Wheel Loader	1	8.5
Getty Center MRT Station-Utility Relocations	Pavement Saw	1	8.5
Getty Center MRT Station-Utility Relocations	Small Compactor	1	8.5
Getty Center MRT Station-Utility Relocations	Telescoping Fork	1	8.5
Getty Center MRT Station-Demolition/Site Preparation	Medium Excavator	1	8.5
Getty Center MRT Station-Demolition/Site Preparation	Small Excavator	1	8.5
Getty Center MRT Station-Demolition/Site Preparation	Motor Grader	1	8.5
Getty Center MRT Station-Demolition/Site Preparation	Wheel Loader	1	8.5
Getty Center MRT Station-Demolition/Site Preparation	Pavement Saw	1	8.5
Getty Center MRT Station-Demolition/Site Preparation	Small Compactor	1	8.5
Getty Center MRT Station-Demolition/Site Preparation	Telescoping Fork	1	8.5
Getty Center MRT Station-Substructure Foundations (CIDH)	Oscillating Drill Rig	1	8.5
Getty Center MRT Station-Substructure Foundations (CIDH)	Crawler Crane	1	8.5
Getty Center MRT Station-Substructure Foundations (CIDH)	Hydraulic Crane	1	8.5
Getty Center MRT Station-Substructure Foundations (CIDH)	Telescoping Fork	2	8.5
Getty Center MRT Station-Substructure Foundations (CIDH)	Wheel Loader	1	8.5
Getty Center MRT Station-Substructure Foundations (CIDH)	Med. Excavator	1	8.5
Getty Center MRT Station-Substructure Foundations (CIDH)	Concrete Pump	1	8.5
Getty Center MRT Station-Substructure Foundations (CIDH)	Generator	2	8.5
Getty Center MRT Station-Precast Superstructure Assembly	Crawler Crane	1	8.5
Getty Center MRT Station-Precast Superstructure Assembly	Hydraulic Crane	1	8.5
Getty Center MRT Station-Precast Superstructure Assembly	Telescoping Fork	2	8.5
Getty Center MRT Station-Precast Superstructure Assembly	Wheel Loader	1	8.5
Getty Center MRT Station-Precast Superstructure Assembly	Med. Excavator	1	8.5
Getty Center MRT Station-Precast Superstructure Assembly	Concrete Pump	1	8.5
Getty Center MRT Station-Precast Superstructure Assembly	Generator	2	8.5
Getty Center MRT Station-Finishing Work	Hydraulic Crane	1	8.5
Getty Center MRT Station-Finishing Work	Telescoping Fork	2	8.5
Getty Center MRT Station-Finishing Work	Generator	2	8.5
UCLA Gateway MRT Station-Utility Relocations	Medium Excavator	1	8.5
UCLA Gateway MRT Station-Utility Relocations	Small Excavator	1	8.5
UCLA Gateway MRT Station-Utility Relocations	Motor Grader	1	8.5
UCLA Gateway MRT Station-Utility Relocations	Wheel Loader	1	8.5
UCLA Gateway MRT Station-Utility Relocations	Pavement Saw	1	8.5
UCLA Gateway MRT Station-Utility Relocations	Small Compactor	1	8.5
UCLA Gateway MRT Station-Utility Relocations	Telescoping Fork	1	8.5
UCLA Gateway MRT Station-Demolition/Site Preparation	Medium Excavator	1	8.5
UCLA Gateway MRT Station-Demolition/Site Preparation	Small Excavator	1	8.5
UCLA Gateway MRT Station-Demolition/Site Preparation	Motor Grader	1	8.5
UCLA Gateway MRT Station-Demolition/Site Preparation	Wheel Loader	1	8.5
UCLA Gateway MRT Station-Demolition/Site Preparation	Pavement Saw	1	8.5
UCLA Gateway MRT Station-Demolition/Site Preparation	Small Compactor	1	8.5
UCLA Gateway MRT Station-Demolition/Site Preparation	Telescoping Fork	1	8.5
UCLA Gateway MRT Station-Station SOE-Excavation	Oscillating Drill Rig	1	8.5
UCLA Gateway MRT Station-Station SOE-Excavation	Crawler Crane	1	8.5
UCLA Gateway MRT Station-Station SOE-Excavation	Hydraulic Crane	1	8.5
UCLA Gateway MRT Station-Station SOE-Excavation	Telescoping Fork	2	8.5
UCLA Gateway MRT Station-Station SOE-Excavation	Wheel Loader	1	8.5
UCLA Gateway MRT Station-Station SOE-Excavation	Med. Excavator	1	8.5
UCLA Gateway MRT Station-Station SOE-Excavation	Concrete Pump	1	8.5
UCLA Gateway MRT Station-Station SOE-Excavation	Generator	2	8.5

Sepulveda Transit Corridor Project - ALTERNATIVE 3

Off-Road Equipment Fleet

Phase Name	Equipment Type	Quantity	Usage (Hrs/day)
UCLA Gateway MRT Station-Station Construction	Crawler Crane	1	8.5
UCLA Gateway MRT Station-Station Construction	Hydraulic Crane	1	8.5
UCLA Gateway MRT Station-Station Construction	Telescoping Fork	2	8.5
UCLA Gateway MRT Station-Station Construction	Wheel Loader	1	8.5
UCLA Gateway MRT Station-Station Construction	Med. Excavator	1	8.5
UCLA Gateway MRT Station-Station Construction	Concrete Pump	1	8.5
UCLA Gateway MRT Station-Station Construction	Generator	2	8.5
UCLA Gateway MRT Station-Finishing Work	Hydraulic Crane	1	8.5
UCLA Gateway MRT Station-Finishing Work	Telescoping Fork	2	8.5
UCLA Gateway MRT Station-Finishing Work	Generator	2	8.5
Wilshire Blvd-Metro D Station-Utility Relocations	Medium Excavator	1	8.5
Wilshire Blvd-Metro D Station-Utility Relocations	Small Excavator	1	8.5
Wilshire Blvd-Metro D Station-Utility Relocations	Motor Grader	1	8.5
Wilshire Blvd-Metro D Station-Utility Relocations	Wheel Loader	1	8.5
Wilshire Blvd-Metro D Station-Utility Relocations	Pavement Saw	1	8.5
Wilshire Blvd-Metro D Station-Utility Relocations	Small Compactor	1	8.5
Wilshire Blvd-Metro D Station-Utility Relocations	Telescoping Fork	1	8.5
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	Medium Excavator	1	8.5
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	Small Excavator	1	8.5
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	Motor Grader	1	8.5
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	Wheel Loader	1	8.5
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	Pavement Saw	1	8.5
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	Small Compactor	1	8.5
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	Telescoping Fork	1	8.5
Wilshire Blvd-Metro D Station-Station SOE-Excavation	Oscillating Drill Rig	1	8.5
Wilshire Blvd-Metro D Station-Station SOE-Excavation	Crawler Crane	1	8.5
Wilshire Blvd-Metro D Station-Station SOE-Excavation	Hydraulic Crane	1	8.5
Wilshire Blvd-Metro D Station-Station SOE-Excavation	Telescoping Fork	2	8.5
Wilshire Blvd-Metro D Station-Station SOE-Excavation	Wheel Loader	1	8.5
Wilshire Blvd-Metro D Station-Station SOE-Excavation	Med. Excavator	1	8.5
Wilshire Blvd-Metro D Station-Station SOE-Excavation	Concrete Pump	1	8.5
Wilshire Blvd-Metro D Station-Station SOE-Excavation	Generator	2	8.5
Wilshire Blvd-Metro D Station-Station Construction	Crawler Crane	1	8.5
Wilshire Blvd-Metro D Station-Station Construction	Hydraulic Crane	1	8.5
Wilshire Blvd-Metro D Station-Station Construction	Telescoping Fork	2	8.5
Wilshire Blvd-Metro D Station-Station Construction	Wheel Loader	1	8.5
Wilshire Blvd-Metro D Station-Station Construction	Med. Excavator	1	8.5
Wilshire Blvd-Metro D Station-Station Construction	Concrete Pump	1	8.5
Wilshire Blvd-Metro D Station-Station Construction	Generator	2	8.5
Wilshire Blvd-Metro D Station-Finishing Work	Hydraulic Crane	1	8.5
Wilshire Blvd-Metro D Station-Finishing Work	Telescoping Fork	2	8.5
Wilshire Blvd-Metro D Station-Finishing Work	Generator	2	8.5
Santa Monica Blvd MRT Station-Utility Relocations	Medium Excavator	1	8.5
Santa Monica Blvd MRT Station-Utility Relocations	Small Excavator	1	8.5
Santa Monica Blvd MRT Station-Utility Relocations	Motor Grader	1	8.5
Santa Monica Blvd MRT Station-Utility Relocations	Wheel Loader	1	8.5
Santa Monica Blvd MRT Station-Utility Relocations	Pavement Saw	1	8.5
Santa Monica Blvd MRT Station-Utility Relocations	Small Compactor	1	8.5
Santa Monica Blvd MRT Station-Utility Relocations	Telescoping Fork	1	8.5
Santa Monica Blvd MRT Station-Demolition/Site Preparation	Medium Excavator	1	8.5
Santa Monica Blvd MRT Station-Demolition/Site Preparation	Small Excavator	1	8.5
Santa Monica Blvd MRT Station-Demolition/Site Preparation	Motor Grader	1	8.5
Santa Monica Blvd MRT Station-Demolition/Site Preparation	Wheel Loader	1	8.5
Santa Monica Blvd MRT Station-Demolition/Site Preparation	Pavement Saw	1	8.5
Santa Monica Blvd MRT Station-Demolition/Site Preparation	Small Compactor	1	8.5
Santa Monica Blvd MRT Station-Demolition/Site Preparation	Telescoping Fork	1	8.5
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	Oscillating Drill Rig	1	8.5
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	Crawler Crane	1	8.5
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	Hydraulic Crane	1	8.5
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	Telescoping Fork	2	8.5
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	Wheel Loader	1	8.5
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	Med. Excavator	1	8.5
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	Concrete Pump	1	8.5
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	Generator	2	8.5

Sepulveda Transit Corridor Project - ALTERNATIVE 3

Off-Road Equipment Fleet

Phase Name	Equipment Type	Quantity	Usage (Hrs/day)
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	Crawler Crane	1	8.5
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	Hydraulic Crane	1	8.5
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	Telescoping Fork	2	8.5
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	Wheel Loader	1	8.5
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	Med. Excavator	1	8.5
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	Concrete Pump	1	8.5
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	Generator	2	8.5
Santa Monica Blvd MRT Station-Finishing Work	Hydraulic Crane	1	8.5
Santa Monica Blvd MRT Station-Finishing Work	Telescoping Fork	2	8.5
Santa Monica Blvd MRT Station-Finishing Work	Generator	2	8.5
Exposition Blvd MRT Station-Utility Relocations	Medium Excavator	1	8.5
Exposition Blvd MRT Station-Utility Relocations	Small Excavator	1	8.5
Exposition Blvd MRT Station-Utility Relocations	Motor Grader	1	8.5
Exposition Blvd MRT Station-Utility Relocations	Wheel Loader	1	8.5
Exposition Blvd MRT Station-Utility Relocations	Pavement Saw	1	8.5
Exposition Blvd MRT Station-Utility Relocations	Small Compactor	1	8.5
Exposition Blvd MRT Station-Utility Relocations	Telescoping Fork	1	8.5
Exposition Blvd MRT Station-Demolition/Site Preparation	Medium Excavator	1	8.5
Exposition Blvd MRT Station-Demolition/Site Preparation	Small Excavator	1	8.5
Exposition Blvd MRT Station-Demolition/Site Preparation	Motor Grader	1	8.5
Exposition Blvd MRT Station-Demolition/Site Preparation	Wheel Loader	1	8.5
Exposition Blvd MRT Station-Demolition/Site Preparation	Pavement Saw	1	8.5
Exposition Blvd MRT Station-Demolition/Site Preparation	Small Compactor	1	8.5
Exposition Blvd MRT Station-Demolition/Site Preparation	Telescoping Fork	1	8.5
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	Oscillating Drill Rig	1	8.5
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	Crawler Crane	1	8.5
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	Hydraulic Crane	1	8.5
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	Telescoping Fork	2	8.5
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	Wheel Loader	1	8.5
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	Med. Excavator	1	8.5
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	Concrete Pump	1	8.5
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	Generator	2	8.5
Exposition Blvd MRT Station-Precast Superstructure Assembly	Crawler Crane	1	8.5
Exposition Blvd MRT Station-Precast Superstructure Assembly	Hydraulic Crane	1	8.5
Exposition Blvd MRT Station-Precast Superstructure Assembly	Telescoping Fork	2	8.5
Exposition Blvd MRT Station-Precast Superstructure Assembly	Wheel Loader	1	8.5
Exposition Blvd MRT Station-Precast Superstructure Assembly	Med. Excavator	1	8.5
Exposition Blvd MRT Station-Precast Superstructure Assembly	Concrete Pump	1	8.5
Exposition Blvd MRT Station-Precast Superstructure Assembly	Generator	2	8.5
Exposition Blvd MRT Station-Finishing Work	Hydraulic Crane	1	8.5
Exposition Blvd MRT Station-Finishing Work	Telescoping Fork	2	8.5
Exposition Blvd MRT Station-Finishing Work	Generator	2	8.5
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	Medium Excavator	1	8.5
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	Small Excavator	1	8.5
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	Motor Grader	1	8.5
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	Wheel Loader	1	8.5
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	Pavement Saw	1	8.5
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	Small Compactor	1	8.5
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	Telescoping Fork	1	8.5
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	Large Excavator	1	8.5
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	Wheel Loader	1	8.5
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	Dozer	1	8.5
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	Compactor	1	8.5
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	Large Excavator	1	8.5
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	Motor Grader	1	8.5
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	Wheel Loader	1	8.5
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	Dozer-1ea	1	8.5
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	Compactor	1	8.5
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	Compactor	4	8.5
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	Telescoping Fork	4	8.5
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	Conc Pump	2	8.5

Sepulveda Transit Corridor Project - ALTERNATIVE 3

Off-Road Equipment Fleet

Phase Name	Equipment Type	Quantity	Usage (Hrs/day)
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	Medium Excavator	1	8.5
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	Small Excavator	1	8.5
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	Motor Grader	1	8.5
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	Wheel Loader	1	8.5
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	Pavement Saw	1	8.5
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	Small Compactor	1	8.5
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	Telescoping Fork	1	8.5
TPSS 4-405-Near Getty Center on East side of 405-Paving	Motor Grader	1	8.5
TPSS 4-405-Near Getty Center on East side of 405-Paving	Wheel Loader	2	8.5
TPSS 4-405-Near Getty Center on East side of 405-Paving	Dozer	1	8.5
TPSS 4-405-Near Getty Center on East side of 405-Paving	Compactor	2	8.5
TPSS 4-405-Near Getty Center on East side of 405-Paving	Asphalt Paver	1	8.5
TPSS 4-405-Near Getty Center on East side of 405-Paving	Asphalt roller	2	8.5
TPSS 6-Skirball-Utility Relocation	Medium Excavator	1	8.5
TPSS 6-Skirball-Utility Relocation	Small Excavator	1	8.5
TPSS 6-Skirball-Utility Relocation	Motor Grader	1	8.5
TPSS 6-Skirball-Utility Relocation	Wheel Loader	1	8.5
TPSS 6-Skirball-Utility Relocation	Pavement Saw	1	8.5
TPSS 6-Skirball-Utility Relocation	Small Compactor	1	8.5
TPSS 6-Skirball-Utility Relocation	Telescoping Fork	1	8.5
TPSS 6-Skirball-Demolition/Site Preparation	Large Excavator	1	8.5
TPSS 6-Skirball-Demolition/Site Preparation	Wheel Loader	1	8.5
TPSS 6-Skirball-Demolition/Site Preparation	Dozer	1	8.5
TPSS 6-Skirball-Demolition/Site Preparation	Compactor	1	8.5
TPSS 6-Skirball-Grading/Excavation	Large Excavator	1	8.5
TPSS 6-Skirball-Grading/Excavation	Motor Grader	1	8.5
TPSS 6-Skirball-Grading/Excavation	Wheel Loader	1	8.5
TPSS 6-Skirball-Grading/Excavation	Dozer-1ea	1	8.5
TPSS 6-Skirball-Grading/Excavation	Compactor	1	8.5
TPSS 6-Skirball-Concrete Work	Compactor	4	8.5
TPSS 6-Skirball-Concrete Work	Telescoping Fork	4	8.5
TPSS 6-Skirball-Concrete Work	Conc Pump	2	8.5
TPSS 6-Skirball-Utility Work	Medium Excavator	1	8.5
TPSS 6-Skirball-Utility Work	Small Excavator	1	8.5
TPSS 6-Skirball-Utility Work	Motor Grader	1	8.5
TPSS 6-Skirball-Utility Work	Wheel Loader	1	8.5
TPSS 6-Skirball-Utility Work	Pavement Saw	1	8.5
TPSS 6-Skirball-Utility Work	Small Compactor	1	8.5
TPSS 6-Skirball-Utility Work	Telescoping Fork	1	8.5
TPSS 6-Skirball-Paving	Motor Grader	1	8.5
TPSS 6-Skirball-Paving	Wheel Loader	2	8.5
TPSS 6-Skirball-Paving	Dozer	1	8.5
TPSS 6-Skirball-Paving	Compactor	2	8.5
TPSS 6-Skirball-Paving	Asphalt Paver	1	8.5
TPSS 6-Skirball-Paving	Asphalt roller	2	8.5
TPSS 11-Raymer-Van Nuys-Utility Relocation	Medium Excavator	1	8.5
TPSS 11-Raymer-Van Nuys-Utility Relocation	Small Excavator	1	8.5
TPSS 11-Raymer-Van Nuys-Utility Relocation	Motor Grader	1	8.5
TPSS 11-Raymer-Van Nuys-Utility Relocation	Wheel Loader	1	8.5
TPSS 11-Raymer-Van Nuys-Utility Relocation	Pavement Saw	1	8.5
TPSS 11-Raymer-Van Nuys-Utility Relocation	Small Compactor	1	8.5
TPSS 11-Raymer-Van Nuys-Utility Relocation	Telescoping Fork	1	8.5
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	Large Excavator	1	8.5
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	Wheel Loader	1	8.5
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	Dozer	1	8.5
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	Compactor	1	8.5
TPSS 11-Raymer-Van Nuys-Grading/Excavation	Large Excavator	1	8.5
TPSS 11-Raymer-Van Nuys-Grading/Excavation	Motor Grader	1	8.5
TPSS 11-Raymer-Van Nuys-Grading/Excavation	Wheel Loader	1	8.5
TPSS 11-Raymer-Van Nuys-Grading/Excavation	Dozer-1ea	1	8.5
TPSS 11-Raymer-Van Nuys-Grading/Excavation	Compactor	1	8.5
TPSS 11-Raymer-Van Nuys-Concrete Work	Compactor	4	8.5
TPSS 11-Raymer-Van Nuys-Concrete Work	Telescoping Fork	4	8.5
TPSS 11-Raymer-Van Nuys-Concrete Work	Conc Pump	2	8.5

Sepulveda Transit Corridor Project - ALTERNATIVE 3

Off-Road Equipment Fleet

Phase Name	Equipment Type	Quantity	Usage (Hrs/day)
TPSS 11-Raymer-Van Nuys-Utility Work	Medium Excavator	1	8.5
TPSS 11-Raymer-Van Nuys-Utility Work	Small Excavator	1	8.5
TPSS 11-Raymer-Van Nuys-Utility Work	Motor Grader	1	8.5
TPSS 11-Raymer-Van Nuys-Utility Work	Wheel Loader	1	8.5
TPSS 11-Raymer-Van Nuys-Utility Work	Pavement Saw	1	8.5
TPSS 11-Raymer-Van Nuys-Utility Work	Small Compactor	1	8.5
TPSS 11-Raymer-Van Nuys-Utility Work	Telescoping Fork	1	8.5
TPSS 11-Raymer-Van Nuys-Paving	Motor Grader	1	8.5
TPSS 11-Raymer-Van Nuys-Paving	Wheel Loader	2	8.5
TPSS 11-Raymer-Van Nuys-Paving	Dozer	1	8.5
TPSS 11-Raymer-Van Nuys-Paving	Compactor	2	8.5
TPSS 11-Raymer-Van Nuys-Paving	Asphalt Paver	1	8.5
TPSS 11-Raymer-Van Nuys-Paving	Asphalt roller	2	8.5
OMSF-Utility Relocation	Medium Excavator	1	8.5
OMSF-Utility Relocation	Small Excavator	1	8.5
OMSF-Utility Relocation	Motor Grader	1	8.5
OMSF-Utility Relocation	Wheel Loader	1	8.5
OMSF-Utility Relocation	Pavement Saw	1	8.5
OMSF-Utility Relocation	Small Compactor	1	8.5
OMSF-Utility Relocation	Telescoping Fork	1	8.5
OMSF-Demolition/Site Preparation	Medium Excavator	1	8.5
OMSF-Demolition/Site Preparation	Small Excavator	1	8.5
OMSF-Demolition/Site Preparation	Motor Grader	1	8.5
OMSF-Demolition/Site Preparation	Wheel Loader	1	8.5
OMSF-Demolition/Site Preparation	Pavement Saw	1	8.5
OMSF-Demolition/Site Preparation	Small Compactor	1	8.5
OMSF-Demolition/Site Preparation	Telescoping Fork	1	8.5
OMSF-Grading/Excavation	Large Excavator	1	8.5
OMSF-Grading/Excavation	Small Excavator	1	8.5
OMSF-Grading/Excavation	Motor Grader	1	8.5
OMSF-Grading/Excavation	Wheel Loader	2	8.5
OMSF-Grading/Excavation	Dozer	1	8.5
OMSF-Grading/Excavation	623 Scraper	2	8.5
OMSF-Grading/Excavation	Compactor	2	8.5
OMSF-Concrete Work	RTG Crane	1	8.5
OMSF-Concrete Work	Hydraulic Crane	1	8.5
OMSF-Concrete Work	Telescoping Fork	2	8.5
OMSF-Concrete Work	Wheel Loader	1	8.5
OMSF-Concrete Work	Concrete Pump	1	8.5
OMSF-Concrete Work	Manlift	2	8.5
OMSF-Utility Work	Medium Excavator	1	8.5
OMSF-Utility Work	Small Excavator	1	8.5
OMSF-Utility Work	Motor Grader	1	8.5
OMSF-Utility Work	Wheel Loader	1	8.5
OMSF-Utility Work	Pavement Saw	1	8.5
OMSF-Utility Work	Small Compactor	1	8.5
OMSF-Utility Work	Telescoping Fork	1	8.5
OMSF-Paving	Motor Grader	1	8.5
OMSF-Paving	Wheel Loader	1	8.5
OMSF-Paving	Dozer	1	8.5
OMSF-Paving	Compactor	2	8.5
OMSF-Paving	Asphalt Paver	1	8.5
OMSF-Paving	Asphalt roller	2	8.5
Haynes St Utility Relocation-Construction	Medium Excavator	1	8.5
Haynes St Utility Relocation-Construction	Small Excavator	1	8.5
Haynes St Utility Relocation-Construction	Motor Grader	1	8.5
Haynes St Utility Relocation-Construction	Wheel Loader	1	8.5
Haynes St Utility Relocation-Construction	Wheel Loader	1	8.5
Haynes St Utility Relocation-Construction	Pavement Saw	1	8.5
Haynes St Utility Relocation-Construction	Small Compactor	1	8.5
Haynes St Utility Relocation-Construction	Telescoping Fork	1	8.5
Haynes St Utility Relocation-Construction	Asphalt Paver	1	8.5
Haynes St Utility Relocation-Construction	Asphalt Roller	1	8.5
Haynes St Utility Relocation-Construction	Jack and Bore Rig	1	8.5

Sepulveda Transit Corridor Project - ALTERNATIVE 3

Off-Road Equipment Fleet

Phase Name	Equipment Type	Quantity	Usage (Hrs/day)
Missouri Ave Utility Relocation-Construction	Medium Excavator	1	8.5
Missouri Ave Utility Relocation-Construction	Small Excavator	1	8.5
Missouri Ave Utility Relocation-Construction	Motor Grader	1	8.5
Missouri Ave Utility Relocation-Construction	Wheel Loader	1	8.5
Missouri Ave Utility Relocation-Construction	Wheel Loader	1	8.5
Missouri Ave Utility Relocation-Construction	Pavement Saw	1	8.5
Missouri Ave Utility Relocation-Construction	Small Compactor	1	8.5
Missouri Ave Utility Relocation-Construction	Telescoping Fork	1	8.5
Missouri Ave Utility Relocation-Construction	Asphalt Paver	1	8.5
Missouri Ave Utility Relocation-Construction	Asphalt Roller	1	8.5
Missouri Ave Utility Relocation-Construction	Jack and Bore Rig	1	8.5
La Grange Ave Utility Relocation-Construction	Medium Excavator	1	8.5
La Grange Ave Utility Relocation-Construction	Small Excavator	1	8.5
La Grange Ave Utility Relocation-Construction	Motor Grader	1	8.5
La Grange Ave Utility Relocation-Construction	Wheel Loader	1	8.5
La Grange Ave Utility Relocation-Construction	Wheel Loader	1	8.5
La Grange Ave Utility Relocation-Construction	Pavement Saw	1	8.5
La Grange Ave Utility Relocation-Construction	Small Compactor	1	8.5
La Grange Ave Utility Relocation-Construction	Telescoping Fork	1	8.5
La Grange Ave Utility Relocation-Construction	Asphalt Paver	1	8.5
La Grange Ave Utility Relocation-Construction	Asphalt Roller	1	8.5
La Grange Ave Utility Relocation-Construction	Jack and Bore Rig	1	8.5
Mississippi Ave Utility Relocation-Construction	Medium Excavator	1	8.5
Mississippi Ave Utility Relocation-Construction	Small Excavator	1	8.5
Mississippi Ave Utility Relocation-Construction	Motor Grader	1	8.5
Mississippi Ave Utility Relocation-Construction	Wheel Loader	1	8.5
Mississippi Ave Utility Relocation-Construction	Wheel Loader	1	8.5
Mississippi Ave Utility Relocation-Construction	Pavement Saw	1	8.5
Mississippi Ave Utility Relocation-Construction	Small Compactor	1	8.5
Mississippi Ave Utility Relocation-Construction	Telescoping Fork	1	8.5
Mississippi Ave Utility Relocation-Construction	Asphalt Paver	1	8.5
Mississippi Ave Utility Relocation-Construction	Asphalt Roller	1	8.5
Mississippi Ave Utility Relocation-Construction	Jack and Bore Rig	1	8.5
I-405 Improvements-Utility Relocation	Medium Excavator	1	8.5
I-405 Improvements-Utility Relocation	Small Excavator	1	8.5
I-405 Improvements-Utility Relocation	Motor Grader	1	8.5
I-405 Improvements-Utility Relocation	Wheel Loader	1	8.5
I-405 Improvements-Utility Relocation	Pavement Saw	1	8.5
I-405 Improvements-Utility Relocation	Small Compactor	1	8.5
I-405 Improvements-Utility Relocation	Telescoping Fork	1	8.5
I-405 Improvements-Demolition/Site Preparation	Large Excavator	4	8.5
I-405 Improvements-Demolition/Site Preparation	Wheel Loader	4	8.5
I-405 Improvements-Demolition/Site Preparation	Dozer	4	8.5
I-405 Improvements-Demolition/Site Preparation	Compactor	4	8.5
I-405 Improvements-Grading/Excavation	Large Excavator	4	8.5
I-405 Improvements-Grading/Excavation	Motor Grader	4	8.5
I-405 Improvements-Grading/Excavation	Wheel Loader	4	8.5
I-405 Improvements-Grading/Excavation	Dozer-1ea	8	8.5
I-405 Improvements-Grading/Excavation	623 Scraper	4	8.5
I-405 Improvements-Grading/Excavation	Compactor	4	8.5
I-405 Improvements-Concrete Work	Compactor	4	8.5
I-405 Improvements-Concrete Work	Telescoping Fork	4	8.5
I-405 Improvements-Concrete Work	Slip Form Paver	2	8.5
Precast Yard-Demolition/Site Preparation	Medium Excavator	1	8.5
Precast Yard-Demolition/Site Preparation	Small Excavator	1	8.5
Precast Yard-Demolition/Site Preparation	Motor Grader	1	8.5
Precast Yard-Demolition/Site Preparation	Wheel Loader	1	8.5
Precast Yard-Demolition/Site Preparation	Pavement Saw	1	8.5
Precast Yard-Demolition/Site Preparation	Small Compactor	1	8.5
Precast Yard-Demolition/Site Preparation	Telescoping Fork	1	8.5

Sepulveda Transit Corridor Project - ALTERNATIVE 3

Off-Road Equipment Fleet

Phase Name	Equipment Type	Quantity	Usage (Hrs/day)
Precast Yard-Grading/Excavation	Large Excavator	1	8.5
Precast Yard-Grading/Excavation	Small Excavator	1	8.5
Precast Yard-Grading/Excavation	Motor Grader	1	8.5
Precast Yard-Grading/Excavation	Wheel Loader	2	8.5
Precast Yard-Grading/Excavation	Dozer	1	8.5
Precast Yard-Grading/Excavation	623 Scraper	2	8.5
Precast Yard-Grading/Excavation	Compactor	2	8.5
Precast Yard-Concrete Work	Gantry Crane	1	8.5
Precast Yard-Concrete Work	RTG Crane	4	8.5
Precast Yard-Concrete Work	Hydraulic Crane	2	8.5
Precast Yard-Concrete Work	Telescoping Fork	4	8.5
Precast Yard-Concrete Work	Wheel Loader	2	8.5
Precast Yard-Concrete Work	Concrete Pump	2	8.5
Precast Yard-Concrete Work	Manlift	2	8.5
Precast Yard-Utility Work	Medium Excavator	1	8.5
Precast Yard-Utility Work	Small Excavator	1	8.5
Precast Yard-Utility Work	Motor Grader	1	8.5
Precast Yard-Utility Work	Wheel Loader	1	8.5
Precast Yard-Utility Work	Pavement Saw	1	8.5
Precast Yard-Utility Work	Small Compactor	1	8.5
Precast Yard-Utility Work	Telescoping Fork	1	8.5
Precast Yard-Paving	Motor Grader	1	8.5
Precast Yard-Paving	Wheel Loader	2	8.5
Precast Yard-Paving	Dozer	1	8.5
Precast Yard-Paving	Compactor	2	8.5
Precast Yard-Paving	Asphalt Paver	1	8.5
Precast Yard-Paving	Asphalt roller	2	8.5
Precast Yard-Guideway Fabrication	Cranes	4	8.5
Precast Yard-Guideway Fabrication	Rough Terrain Forklifts	2	8.5
Precast Yard-Guideway Fabrication	Concrete Pumps	4	8.5

Sepulveda Transit Corridor Project - ALTERNATIVE 3

DUST CONTROL MEASURES/ASSUMPTIONS

General Construction Assumptions	Value
Onsite Vehicle Speed (mph):	15
Onsite Trip Length (miles):	0.10
Number of Watering Events per Day:	3
General Worksite Dust Reduction (%)	74%

Dust Control Measures[1]

Activity Area	Control Measure	Control Efficiency (%)	Additional Notes
General Worksite	Apply water at various intervals to disturbed areas within construction site (**3.2-hour watering interval)**	61%	If using this reduction, account for 2 water trucks trips per day (4 one-way trips/2 onsite trips)
General Worksite	Apply water at various intervals to disturbed areas within construction site (**2.1-hour watering interval)**	74%	If using this reduction, account for 3 water trucks trips per day (6 one-way trips/3 onsite trips)
Unpaved Roads	Implement watering twice a day for industrial unpaved road.	55%	The analysis assumes water trucks used for general worksite would also water unpaved roads and provide water during demolition activities. The AQ analysis assumes 3 water trucks per day,
Demolition Activities	Apply water every 4 hours to the area within 100 feet of a structure being demolished, to reduce vehicle trackout.	36%	

Notes:

1. Western Regional Air Partnership (WRAP) Fugitive Dust Handbook. September 7, 2006. Prepared by Countess Environmental

Sepulveda Transit Corridor Project - ALTERNATIVE 3

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Emission Factor (g/bhp-hr)[3] ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.35	3.29	4.26	0.01	-	0.05	0.05	-	0.04	0.04	574.49	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.34	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.33	3.30	4.19	0.01	-	0.07	0.07	-	0.06	0.06	588.07	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.33	3.30	4.19	0.01	-	0.07	0.07	-	0.06	0.06	588.07	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.34	3.25	4.24	0.01	-	0.04	0.04	-	0.04	0.04	574.00	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.37	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	7	8.5	83	0.5	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.33	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Crawler Crane	Cranes	7	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Hydraulic Crane	Cranes	7	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Telescoping Fork	Rough Terrain Forklifts	14	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	7	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Med. Excavator	Excavators	7	8.5	36	0.38	Diesel	Fleet Avg	0.29	3.27	4.15	0.01	-	0.05	0.05	-	0.05	0.05	588.07	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Concrete Pump	Pumps	7	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.33	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Generator	Generator Sets	14	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.26	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.27	3.21	4.12	0.01	-	0.03	0.03	-	0.03	0.03	588.07	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.33	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.32	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.32	0.02	0.00
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	2029	Medium Excavator	Excavators	1	17	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	2029	Small Excavator	Excavators	1	17	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	2029	Motor Grader	Graders	1	17	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	17	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	2029	Pavement Saw	Concrete/Industrial Saws	1	17	33	0.73	Diesel	Fleet Avg	0.35	3.29	4.26	0.01	-	0.05	0.05	-	0.04	0.04	574.49	0.02	0.00
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	2029	Small Compactor	Plate Compactors	1	17	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.34	0.02	0.00
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	2029	Telescoping Fork	Rough Terrain Forklifts	1	17	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	2030	Medium Excavator	Excavators	1	17	36	0.38	Diesel	Fleet Avg	0.33	3.30	4.19	0.01	-	0.07	0.07	-	0.06	0.06	588.07	0.02	0.00
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	2030	Small Excavator	Excavators	1	17	36	0.38	Diesel	Fleet Avg	0.33	3.30	4.19	0.01	-	0.07	0.07	-	0.06	0.06	588.07	0.02	0.00
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	2030	Motor Grader	Graders	1	17	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	2030	Wheel Loader	Tractors/Loaders/Backhoes	1	17	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	2030	Pavement Saw	Concrete/Industrial Saws	1	17	33	0.73	Diesel	Fleet Avg	0.34	3.25	4.24	0.01	-	0.04	0.04	-	0.04	0.04	574.00	0.02	0.00
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	2030	Small Compactor	Plate Compactors	1	17	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.37	0.02	0.00
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	2030	Telescoping Fork	Rough Terrain Forklifts	1	17	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	2032	Drill Rig	Bore/Drill Rigs	1	17	83	0.5	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.33	0.02	0.00
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	2032	Track Loader	Tractors/Loaders/Backhoes	2	17	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	2032	Telescoping Fork	Rough Terrain Forklifts	3	17	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	2032	Crawler Crane	Cranes	1	17	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	2032	Mini Excavator	Excavators	1	17	36	0.38	Diesel	Fleet Avg	0.29	3.27	4.15	0.01	-	0.05	0.05	-	0.05	0.05	588.07	0.02	0.00
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	2032	Hydraulic Crane	Cranes	1	17	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	17	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	2032	Concrete Pump	Pumps	1	17	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.33	0.02	0.00
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	2032	Generator	Generator Sets	3	17	14	0.74	Diesel	Fleet Avg	0.53	4.26	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	2033	Locomotive	Off-Highway Tractors	1	17	38	0.44	Diesel	Fleet Avg	0.37	3.35	4.54	0.01	-	0.06	0.06	-	0.05	0.05	586.22	0.02	0.00
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	2033	Telescoping Fork	Rough Terrain Forklifts	2	17	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	2033	Crawler Crane	Cranes	1	17	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	17	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	2033	Generator	Generator Sets	2	17	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.31	0.02	0.00
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	2033	TBM	Tunnel Boring Machine	1	17	0	0	Electric	--	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	2033	Manlift	Aerial Lifts	3	17	46	0.31	Diesel	Fleet Avg	0.14	2.85	3.06	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	2035	Telescoping Fork	Rough Terrain Forklifts	3	17	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	2035	Crawler Crane	Cranes	1	17	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	2035	Mini Excavator	Excavators	1	17	36	0.38	Diesel	Fleet Avg	0.27	3.21	4.12	0.01	-	0.03	0.03	-	0.03	0.03	588.07	0.02	0.00
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	2035	Hydraulic Crane	Cranes	1	17	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	2035	Wheel Loader	Tractors/Loaders/Backhoes	1	17	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	2035	Concrete Pump	Pumps	1	17	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.33	0.02	0.00
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	2035	Generator	Generator Sets	3	17	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.32	0.02	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.35	3.29	4.26	0.01	-	0.05	0.05	-	0.04	0.04	574.49	0.02	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.34	0.02	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 3

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Daily Emissions (lb/day)												
															ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.16	1.49	1.92	0.00	-	0.02	0.02	-	0.02	0.02	259.3	0.01	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.08	0.85	1.07	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.08	0.85	1.07	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.15	1.47	1.91	0.00	-	0.02	0.02	-	0.02	0.02	259.1	0.01	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	7	8.5	83	0.5	Diesel	Tier 4 Final	0.27	1.42	20.14	0.03	-	0.05	0.05	-	0.05	0.05	2848.9	0.12	0.02
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Crawler Crane	Cranes	7	8.5	367	0.29	Diesel	Tier 4 Final	0.70	3.63	36.30	0.07	-	0.14	0.14	-	0.14	0.14	7366.0	0.30	0.06
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Hydraulic Crane	Cranes	7	8.5	367	0.29	Diesel	Tier 4 Final	0.70	3.63	36.30	0.07	-	0.14	0.14	-	0.14	0.14	7366.0	0.30	0.06
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Telescoping Fork	Rough Terrain Forklifts	14	8.5	96	0.4	Diesel	Tier 4 Final	0.50	2.62	37.27	0.05	-	0.10	0.10	-	0.10	0.10	5326.5	0.22	0.04
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	7	8.5	84	0.37	Diesel	Tier 4 Final	0.20	1.06	15.08	0.02	-	0.04	0.04	-	0.04	0.04	2157.8	0.09	0.02
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Med. Excavator	Excavators	7	8.5	36	0.38	Diesel	Fleet Avg	0.52	5.87	7.44	0.01	-	0.09	0.09	-	0.08	0.08	1055.3	0.04	0.01
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Concrete Pump	Pumps	7	8.5	11	0.74	Diesel	Fleet Avg	0.59	4.52	3.18	0.01	-	0.18	0.18	-	0.16	0.16	606.8	0.02	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Generator	Generator Sets	14	8.5	14	0.74	Diesel	Fleet Avg	1.45	11.57	7.72	0.02	-	0.45	0.45	-	0.41	0.41	1544.6	0.06	0.01
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Fleet Avg	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.82	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.08	0.64	0.45	0.00	-	0.02	0.02	-	0.02	0.02	86.7	0.00	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	2029	Medium Excavator	Excavators	1	17	36	0.38	Diesel	Fleet Avg	0.18	1.70	2.17	0.00	-	0.04	0.04	-	0.04	0.04	301.5	0.01	0.00
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	2029	Small Excavator	Excavators	1	17	36	0.38	Diesel	Fleet Avg	0.18	1.70	2.17	0.00	-	0.04	0.04	-	0.04	0.04	301.5	0.01	0.00
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	2029	Motor Grader	Graders	1	17	148	0.41	Diesel	Tier 4 Final	0.11	0.59	8.41	0.01	-	0.02	0.02	-	0.02	0.02	1207.7	0.05	0.01
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	17	84	0.37	Diesel	Tier 4 Final	0.06	0.30	4.31	0.01	-	0.01	0.01	-	0.01	0.01	616.5	0.03	0.01
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	2029	Pavement Saw	Concrete/Industrial Saws	1	17	33	0.73	Diesel	Fleet Avg	0.32	2.97	3.84	0.01	-	0.04	0.04	-	0.04	0.04	518.7	0.02	0.00
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	2029	Small Compactor	Plate Compactors	1	17	8	0.43	Diesel	Fleet Avg	0.07	0.53	0.45	0.00	-	0.02	0.02	-	0.02	0.02	73.3	0.00	0.00
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	2029	Telescoping Fork	Rough Terrain Forklifts	1	17	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	2030	Medium Excavator	Excavators	1	17	36	0.38	Diesel	Fleet Avg	0.17	1.69	2.15	0.00	-	0.03	0.03	-	0.03	0.03	301.5	0.01	0.00
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	2030	Small Excavator	Excavators	1	17	36	0.38	Diesel	Fleet Avg	0.17	1.69	2.15	0.00	-	0.03	0.03	-	0.03	0.03	301.5	0.01	0.00
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	2030	Motor Grader	Graders	1	17	148	0.41	Diesel	Tier 4 Final	0.11	0.59	8.41	0.01	-	0.02	0.02	-	0.02	0.02	1207.7	0.05	0.01
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	2030	Wheel Loader	Tractors/Loaders/Backhoes	1	17	84	0.37	Diesel	Tier 4 Final	0.06	0.30	4.31	0.01	-	0.01	0.01	-	0.01	0.01	616.5	0.03	0.01
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	2030	Pavement Saw	Concrete/Industrial Saws	1	17	33	0.73	Diesel	Fleet Avg	0.31	2.94	3.83	0.01	-	0.04	0.04	-	0.03	0.03	518.2	0.02	0.00
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	2030	Small Compactor	Plate Compactors	1	17	8	0.43	Diesel	Fleet Avg	0.07	0.53	0.45	0.00	-	0.02	0.02	-	0.02	0.02	73.3	0.00	0.00
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	2030	Telescoping Fork	Rough Terrain Forklifts	1	17	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	2032	Drill Rig	Bore/Drill Rigs	1	17	83	0.5	Diesel	Tier 4 Final	0.08	0.40	5.75	0.01	-	0.02	0.02	-	0.02	0.02	814.0	0.03	0.01
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	2032	Track Loader	Tractors/Loaders/Backhoes	2	17	84	0.37	Diesel	Tier 4 Final	0.12	0.61	8.62	0.01	-	0.02	0.02	-	0.02	0.02	1233.0	0.05	0.01
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	2032	Telescoping Fork	Rough Terrain Forklifts	3	17	96	0.4	Diesel	Tier 4 Final	0.22	1.12	15.97	0.02	-	0.04	0.04	-	0.04	0.04	2282.8	0.09	0.02
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	2032	Crawler Crane	Cranes	1	17	367	0.29	Diesel	Tier 4 Final	0.20	1.04	10.37	0.02	-	0.04	0.04	-	0.04	0.04	2104.6	0.09	0.02
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	2032	Mini Excavator	Excavators	1	17	36	0.38	Diesel	Fleet Avg	0.15	1.68	2.13	0.00	-	0.03	0.03	-	0.02	0.02	301.5	0.01	0.00
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	2032	Hydraulic Crane	Cranes	1	17	367	0.29	Diesel	Tier 4 Final	0.20	1.04	10.37	0.02	-	0.04	0.04	-	0.04	0.04	2104.6	0.09	0.02
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	17	84	0.37	Diesel	Tier 4 Final	0.06	0.30	4.31	0.01	-	0.01	0.01	-	0.01	0.01	616.5	0.03	0.01
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	2032	Concrete Pump	Pumps	1	17	11	0.74	Diesel	Fleet Avg	0.17	1.29	0.91	0.00	-	0.05	0.05	-	0.05	0.05	173.4	0.01	0.00
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	2032	Generator	Generator Sets	3	17	14	0.74	Diesel	Fleet Avg	0.62	4.96	3.31	0.01	-	0.19	0.19	-	0.18	0.18	662.0	0.03	0.01
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	2033	Locomotive	Off-Highway Tractors	1	17	38	0.44	Diesel	Fleet Avg	0.23	2.10	2.85	0.00	-	0.04	0.04	-	0.03	0.03	367.4	0.01	0.00
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	2033	Telescoping Fork	Rough Terrain Forklifts	2	17	96	0.4	Diesel	Tier 4 Final	0.14	0.75	10.65	0.01	-	0.03	0.03	-	0.03	0.03	1521.9	0.06	0.01
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	2033	Crawler Crane	Cranes	1	17	367	0.29	Diesel	Tier 4 Final	0.20	1.04	10.37	0.02	-	0.04	0.04	-	0.04	0.04	2104.6	0.09	0.02
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	17	84	0.37	Diesel	Tier 4 Final	0.06	0.30	4.31	0.01	-	0.01	0.01	-	0.01	0.01	616.5	0.03	0.01
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	2033	Generator	Generator Sets	2	17	14	0.74	Diesel	Fleet Avg	0.41	3.30	2.20	0.01	-	0.13	0.13	-	0.12	0.12	441.3	0.02	0.00
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	2033	TBM	Tunnel Boring Machine	1	17	0	0	Electric	--	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	2033	Manlift	Aerial Lifts	3	17	46	0.31	Diesel	Fleet Avg	0.23	4.57	4.91	0.01	-	0.03	0.03	-	0.02	0.02	941.0	0.04	0.01
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	2035	Telescoping Fork	Rough Terrain Forklifts	3	17	96	0.4	Diesel	Tier 4 Final	0.22	1.12	15.97	0.02	-	0.04	0.04	-	0.04	0.04	2282.8	0.09	0.02
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	2035	Crawler Crane	Cranes	1	17	367	0.29	Diesel	Tier 4 Final	0.20	1.04	10.37	0.02	-	0.04	0.04	-	0.04	0.04	2104.6	0.09	0.02
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	2035	Mini Excavator	Excavators	1	17	36	0.38	Diesel	Fleet Avg	0.14	1.65	2.11	0.00	-	0.02	0.02	-	0.02	0.02	301.5	0.01	0.00
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	2035	Hydraulic Crane	Cranes	1	17	367	0.29	Diesel	Tier 4 Final	0.20	1.04	10.37	0.02	-	0.04	0.04	-	0.04	0.04	2104.6	0.09	0.02
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	2035	Wheel Loader	Tractors/Loaders/Backhoes	1	17	84	0.37	Diesel	Tier 4 Final	0.06	0.30	4.31	0.01	-	0.01	0.01	-	0.01	0.01	616.5	0.03	0.01
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	2035	Concrete Pump	Pumps	1	17	11	0.74	Diesel	Fleet Avg	0.17	1.29	0.91	0.00	-	0.05	0.05	-	0.05	0.05	173.4	0.01	0.00
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	2035	Generator	Generator Sets	3	17	14	0.74	Diesel	Fleet Avg	0.62	4.95	3.31	0.01	-	0.19	0.19	-	0.17	0.17	662.0	0.03	0.01
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.16	1.49	1.92	0.00	-	0.02	0.02	-	0.02	0.02	259.3	0.01	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 3

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Total Emissions (tons) ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	Total Emissions (metric tons) CO_2	CH_4	N_2O	CO_2e
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.05	0.44	0.57	0.00	-	0.01	0.01	-	0.01	0.01	71.5	0.00	0.00	71.7
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.05	0.44	0.57	0.00	-	0.01	0.01	-	0.01	0.01	71.5	0.00	0.00	71.7
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.03	0.15	2.20	0.00	-	0.01	0.01	-	0.01	0.01	286.2	0.01	0.00	287.2
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.02	0.08	1.13	0.00	-	0.00	0.00	-	0.00	0.00	146.1	0.01	0.00	146.6
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.08	0.78	1.00	0.00	-	0.01	0.01	-	0.01	0.01	122.9	0.00	0.00	123.4
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.02	0.14	0.12	0.00	-	0.01	0.01	-	0.01	0.01	17.4	0.00	0.00	17.4
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.02	0.10	1.39	0.00	-	0.00	0.00	-	0.00	0.00	180.3	0.01	0.00	181.0
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.03	0.28	0.35	0.00	-	0.01	0.01	-	0.01	0.01	44.8	0.00	0.00	44.9
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.03	0.28	0.35	0.00	-	0.01	0.01	-	0.01	0.01	44.8	0.00	0.00	44.9
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.02	0.10	1.38	0.00	-	0.00	0.00	-	0.00	0.00	179.4	0.01	0.00	180.0
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.01	0.05	0.71	0.00	-	0.00	0.00	-	0.00	0.00	91.6	0.00	0.00	91.9
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.05	0.48	0.63	0.00	-	0.01	0.01	-	0.01	0.01	77.0	0.00	0.00	77.2
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.01	0.09	0.07	0.00	-	0.00	0.00	-	0.00	0.00	10.9	0.00	0.00	10.9
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.01	0.06	0.87	0.00	-	0.00	0.00	-	0.00	0.00	113.0	0.00	0.00	113.4
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	7	8.5	83	0.5	Diesel	Tier 4 Final	0.12	0.60	8.53	0.01	-	0.02	0.02	-	0.02	0.02	1094.5	0.04	0.01	1098.3
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Crawler Crane	Cranes	7	8.5	367	0.29	Diesel	Tier 4 Final	0.30	1.54	15.37	0.03	-	0.06	0.06	-	0.06	0.06	2830.0	0.11	0.02	2839.7
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Hydraulic Crane	Cranes	7	8.5	367	0.29	Diesel	Tier 4 Final	0.30	1.54	15.37	0.03	-	0.06	0.06	-	0.06	0.06	2830.0	0.11	0.02	2839.7
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Telescoping Fork	Rough Terrain Forklifts	14	8.5	96	0.4	Diesel	Tier 4 Final	0.21	1.11	15.79	0.02	-	0.04	0.04	-	0.04	0.04	2046.4	0.08	0.02	2053.4
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	7	8.5	84	0.37	Diesel	Tier 4 Final	0.09	0.45	6.39	0.01	-	0.02	0.02	-	0.02	0.02	829.0	0.03	0.01	831.8
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Med. Excavator	Excavators	7	8.5	36	0.38	Diesel	Fleet Avg	0.22	2.49	3.15	0.00	-	0.04	0.04	-	0.03	0.03	405.4	0.02	0.00	406.8
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Concrete Pump	Pumps	7	8.5	11	0.74	Diesel	Fleet Avg	0.25	1.91	1.34	0.00	-	0.07	0.07	-	0.07	0.07	233.1	0.01	0.00	233.9
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Generator	Generator Sets	14	8.5	14	0.74	Diesel	Fleet Avg	0.61	4.90	3.27	0.01	-	0.19	0.19	-	0.17	0.17	593.4	0.02	0.00	595.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.01	0.05	0.45	0.00	-	0.00	0.00	-	0.00	0.00	83.1	0.00	0.00	83.3
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.01	0.05	0.45	0.00	-	0.00	0.00	-	0.00	0.00	83.1	0.00	0.00	83.3
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.01	0.03	0.46	0.00	-	0.00	0.00	-	0.00	0.00	60.1	0.00	0.00	60.3
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.19	0.00	-	0.00	0.00	-	0.00	0.00	24.3	0.00	0.00	24.4
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.07	0.09	0.00	-	0.00	0.00	-	0.00	0.00	11.9	0.00	0.00	11.9
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.01	0.06	0.04	0.00	-	0.00	0.00	-	0.00	0.00	6.8	0.00	0.00	6.9
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.02	0.14	0.10	0.00	-	0.01	0.01	-	0.01	0.01	17.4	0.00	0.00	17.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.00	0.01	0.11	0.00	-	0.00	0.00	-	0.00	0.00	21.0	0.00	0.00	21.1
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.01	0.12	0.00	-	0.00	0.00	-	0.00	0.00	15.2	0.00	0.00	15.2
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.00	0.04	0.02	0.00	-	0.00	0.00	-	0.00	0.00	4.4	0.00	0.00	4.4
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	2029	Medium Excavator	Excavators	1	17	36	0.38	Diesel	Fleet Avg	0.10	0.89	1.13	0.00	-	0.02	0.02	-	0.02	0.02	142.9	0.01	0.00	143.4
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	2029	Small Excavator	Excavators	1	17	36	0.38	Diesel	Fleet Avg	0.10	0.89	1.13	0.00	-	0.02	0.02	-	0.02	0.02	142.9	0.01	0.00	143.4
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	2029	Motor Grader	Graders	1	17	148	0.41	Diesel	Tier 4 Final	0.06	0.31	4.40	0.01	-	0.01	0.01	-	0.01	0.01	572.5	0.02	0.00	574.4
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	17	84	0.37	Diesel	Tier 4 Final	0.03	0.16	2.25	0.00	-	0.01	0.01	-	0.01	0.01	292.2	0.01	0.00	293.2
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	2029	Pavement Saw	Concrete/Industrial Saws	1	17	33	0.73	Diesel	Fleet Avg	0.17	1.55	2.01	0.00	-	0.02	0.02	-	0.02	0.02	245.9	0.01	0.00	246.7
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	2029	Small Compactor	Plate Compactors	1	17	8	0.43	Diesel	Fleet Avg	0.04	0.28	0.23	0.00	-	0.01	0.01	-	0.01	0.01	34.7	0.00	0.00	34.9
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	2029	Telescoping Fork	Rough Terrain Forklifts	1	17	96	0.4	Diesel	Tier 4 Final	0.04	0.20	2.78	0.00	-	0.01	0.01	-	0.01	0.01	360.7	0.01	0.00	361.9
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	2030	Medium Excavator	Excavators	1	17	36	0.38	Diesel	Fleet Avg	0.06	0.55	0.70	0.00	-	0.01	0.01	-	0.01	0.01	89.6	0.00	0.00	89.9
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	2030	Small Excavator	Excavators	1	17	36	0.38	Diesel	Fleet Avg	0.06	0.55	0.70	0.00	-	0.01	0.01	-	0.01	0.01	89.6	0.00	0.00	89.9
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	2030	Motor Grader	Graders	1	17	148	0.41	Diesel	Tier 4 Final	0.04	0.19	2.76	0.00	-	0.01	0.01	-	0.01	0.01	358.8	0.01	0.00	360.0
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	2030	Wheel Loader	Tractors/Loaders/Backhoes	1	17	84	0.37	Diesel	Tier 4 Final	0.02	0.10	1.41	0.00	-	0.00	0.00	-	0.00	0.00	183.2	0.01	0.00	183.8
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	2030	Pavement Saw	Concrete/Industrial Saws	1	17	33	0.73	Diesel	Fleet Avg	0.10	0.96	1.25	0.00	-	0.01	0.01	-	0.01	0.01	154.0	0.01	0.00	154.5
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	2030	Small Compactor	Plate Compactors	1	17	8	0.43	Diesel	Fleet Avg	0.02	0.17	0.15	0.00	-	0.01	0.01	-	0.01	0.01	21.8	0.00	0.00	21.8
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	2030	Telescoping Fork	Rough Terrain Forklifts	1	17	96	0.4	Diesel	Tier 4 Final	0.02	0.12	1.74	0.00	-	0.00	0.00	-	0.00	0.00	226.1	0.01	0.00	226.9
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	2032	Drill Rig	Bore/Drill Rigs	1	17	83	0.5	Diesel	Tier 4 Final	0.01	0.03	0.44	0.00	-	0.00	0.00	-	0.00	0.00	56.9	0.00	0.00	57.1
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	2032	Track Loader	Tractors/Loaders/Backhoes	2	17	84	0.37	Diesel	Tier 4 Final	0.01	0.05	0.66	0.00	-	0.00	0.00	-	0.00	0.00	86.1	0.00	0.00	86.4
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	2032	Telescoping Fork	Rough Terrain Forklifts	3	17	96	0.4	Diesel	Tier 4 Final	0.02	0.09	1.23	0.00	-	0.00	0.00	-	0.00	0.00	159.5	0.01	0.00	160.0
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	2032	Crawler Crane	Cranes	1	17	367	0.29	Diesel	Tier 4 Final	0.02	0.08	0.80	0.00	-	0.00	0.00	-	0.00	0.00	147.0	0.01	0.00	147.5
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	2032	Mini Excavator	Excavators	1	17	36	0.38	Diesel	Fleet Avg	0.01	0.13	0.16	0.00	-	0.00	0.00	-	0.00	0.00	21.1	0.00	0.00	21.1
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	2032	Hydraulic Crane	Cranes	1	17	367	0.29	Diesel	Tier 4 Final	0.02	0.08	0.80	0.00	-	0.00	0.00	-	0.00	0.00	147.0	0.01	0.00	147.5
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	17	84	0.37	Diesel	Tier 4 Final	0.00	0.02	0.33	0.00	-	0.00	0.00	-	0.00	0.00	43.1	0.00	0.00	43.2
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	2032	Concrete Pump	Pumps	1	17	11	0.74	Diesel	Fleet Avg	0.01	0.10	0.07	0.00	-	0.00	0.00	-	0.00	0.00	12.1	0.00	0.00	12.2
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	2032	Generator	Generator Sets	3	17	14	0.74	Diesel	Fleet Avg	0.05	0.38	0.25	0.00	-	0.01	0.01	-	0.01	0.01	46.2	0.00	0.00	46.4
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	2033	Locomotive	Off-Highway Tractors	1	17	38	0.44	Diesel	Fleet Avg	0.08	0.71	0.96	0.00	-	0.01	0.01	-	0.01	0.01	112.0	0.00	0.00	112.4
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	2033	Telescoping Fork	Rough Terrain Forklifts	2	17	96	0.4	Diesel	Tier 4 Final	0.05	0.25	3.58	0.00	-	0.01	0.01	-	0.01	0.01	463.9	0.02	0.00	465.5
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	2033	Crawler Crane	Cranes	1	17	367	0.29	Diesel	Tier 4 Final	0.07	0.35	3.48	0.01	-	0.01	0.01	-	0.01	0.01	641.5	0.03	0.01	643.7
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	17	84	0.37	Diesel	Tier 4 Final	0.02	0.10	1.45	0.00	-	0.00	0.00	-	0.00	0.00	187.9	0.01	0.00	188.6
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	2033	Generator	Generator Sets	2	17	14	0.74	Diesel	Fleet Avg	0.14	1.11	0.74	0.00	-	0.04	0.04	-	0.04	0.04	134.5	0.01	0.00	135.0
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	2033	TBM	Tunnel Boring Machine	1	17	0	0	Electric	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	2033	Manlift	Aerial Lifts	3	17	46	0.31	Diesel	Fleet Avg	0.08	1.54	1.65	0.00	-	0.01	0.01	-	0.01	0.01	286.8	0.01	0.00	287.8
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	2035	Telescoping Fork	Rough Terrain Forklifts	3	17	96	0.4	Diesel	Tier 4 Final	0.04	0.23	3.30	0.00	-	0.01	0.01	-	0.01	0.01	427.6	0.02	0.00	429.1
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	2035	Crawler Crane	Cranes	1	17	367	0.29	Diesel	Tier 4 Final	0.04	0.21	2.14	0.00	-	0.01	0.01	-	0.01	0.01	394.3	0.02	0.00	395.6
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	2035	Mini Excavator	Excavators	1	17	36	0.38	Diesel	Fleet Avg	0.03	0.34	0.44	0.00	-	0.00	0.00	-	0.00	0.00	56.5	0.00	0.00	56.7
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	2035	Hydraulic Crane	Cranes	1	17	367	0.29	Diesel	Tier 4 Final	0.04	0.21	2.14	0.00	-	0.01	0.01	-	0.01	0.01	394.3	0.02	0.00	395.6
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	2035	Wheel Loader	Tractors/Loaders/Backhoes	1	17	84	0.37	Diesel	Tier 4 Final	0.01	0.06	0.89	0.00	-	0.00	0.00	-	0.00	0.00	115.5	0.00	0.00	115.9
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	2035	Concrete Pump	Pumps	1	17	11	0.74	Diesel	Fleet Avg	0.03	0.27	0.19	0.00	-	0.01	0.01	-	0.01	0.01	32.5	0.00	0.00	32.6
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	2035	Generator	Generator Sets	3	17	14	0.74	Diesel	Fleet Avg	0.13	1.02	0.68	0.00	-	0.04	0.04	-	0.04	0.04	124.0	0.01	0.00	124.4
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.05	0.44	0.57	0.00	-	0.01	0.01	-	0.01	0.01	71.5	0.00	0.00	71.7
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.05	0.44	0.57	0.00	-	0.01	0.01	-	0.01	0.01	71.5	0.00	0.00	71.7
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.03	0.15	2.20	0.00	-	0.01	0.01	-	0.01	0.01	286.2	0.01	0.00	287.2
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.02	0.08	1.13	0.00	-	0.00	0.00	-	0.00	0.00	146.1	0.01	0.00	146.6
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.08	0.78	1.00	0.00	-	0.01	0.01	-	0.01	0.01	122.9	0.00	0.00	123.4
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.02	0.14	0.12	0.00	-	0.01	0.01	-	0.01	0.01	17.4	0.00	0.00	17.4
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.02	0.10	1.39	0.00	-	0.00	0.00	-	0.00	0.00	180.3	0.01	0.00	181.0

Sepulveda Transit Corridor Project - ALTERNATIVE 3

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Emission Factor (g/bhp-hr)[3] ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.33	3.30	4.19	0.01	-	0.07	0.07	-	0.06	0.06	588.07	0.02	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.33	3.30	4.19	0.01	-	0.07	0.07	-	0.06	0.06	588.07	0.02	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.34	3.25	4.24	0.01	-	0.04	0.04	-	0.04	0.04	574.00	0.02	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.37	0.02	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (C	6/1/2032	10/31/2033	5	370	10	2032	Drill Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.33	0.02	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (C	6/1/2032	10/31/2033	5	370	10	2032	Track Loader	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (C	6/1/2032	10/31/2033	5	370	10	2032	Telescoping Fork	Rough Terrain Forklifts	3	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (C	6/1/2032	10/31/2033	5	370	10	2032	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (C	6/1/2032	10/31/2033	5	370	10	2032	Mini Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.29	3.27	4.15	0.01	-	0.05	0.05	-	0.05	0.05	588.07	0.02	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (C	6/1/2032	10/31/2033	5	370	10	2032	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (C	6/1/2032	10/31/2033	5	370	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (C	6/1/2032	10/31/2033	5	370	10	2032	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.33	0.02	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (C	6/1/2032	10/31/2033	5	370	10	2032	Generator	Generator Sets	3	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.26	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Asse	11/1/2033	11/30/2033	5	22	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Asse	11/1/2033	11/30/2033	5	22	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Asse	11/1/2033	11/30/2033	5	22	10	2033	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Asse	11/1/2033	11/30/2033	5	22	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Asse	11/1/2033	11/30/2033	5	22	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.31	0.02	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Asse	11/1/2033	11/30/2033	5	22	10	2033	Manlift	Aerial Lifts	3	8.5	46	0.31	Diesel	Fleet Avg	0.14	2.85	3.06	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	2033	Telescoping Fork	Rough Terrain Forklifts	3	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	2033	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	2033	Mini Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	2033	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	2033	Generator	Generator Sets	3	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.31	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.35	3.29	4.26	0.01	-	0.05	0.05	-	0.04	0.04	574.49	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.34	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.33	3.30	4.19	0.01	-	0.07	0.07	-	0.06	0.06	588.07	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.33	3.30	4.19	0.01	-	0.07	0.07	-	0.06	0.06	588.07	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.34	3.25	4.24	0.01	-	0.04	0.04	-	0.04	0.04	574.00	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.37	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	2	8.5	83	0.5	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.33	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	2032	Crawler Crane	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	2032	Hydraulic Crane	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	2032	Telescoping Fork	Rough Terrain Forklifts	4	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	2032	Med. Excavator	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.29	3.27	4.15	0.01	-	0.05	0.05	-	0.05	0.05	588.07	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	2032	Concrete Pump	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.33	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	2032	Generator	Generator Sets	4	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.26	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembl	5/1/2033	10/31/2033	5	131	10	2033	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembl	5/1/2033	10/31/2033	5	131	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembl	5/1/2033	10/31/2033	5	131	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembl	5/1/2033	10/31/2033	5	131	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembl	5/1/2033	10/31/2033	5	131	10	2033	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembl	5/1/2033	10/31/2033	5	131	10	2033	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembl	5/1/2033	10/31/2033	5	131	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.31	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.31	0.02	0.00
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.35	3.29	4.26	0.01	-	0.05	0.05	-	0.04	0.04	574.49	0.02	0.00
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.34	0.02	0.00
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.31	3.28	4.17	0.01	-	0.06	0.06	-	0.05	0.05	588.07	0.02	0.00
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.31	3.28	4.17	0.01	-	0.06	0.06	-	0.05	0.05	588.07	0.02	0.00
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.33	3.22	4.23	0.01	-	0.04	0.04	-	0.03	0.03	573.27	0.02	0.00
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.29	0.02	0.00
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.33	0.02	0.00
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.29	3.27	4.15	0.01	-	0.05	0.05	-	0.05	0.05	588.07	0.02	0.00
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.33	0.02	0.00
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.26	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 3

OFFROAD EQUIPMENT (ONSITE)[1]

															Daily Emissions (lb/day)												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.08	0.85	1.07	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.08	0.85	1.07	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.15	1.47	1.91	0.00	-	0.02	0.02	-	0.02	0.02	259.1	0.01	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (C	6/1/2032	10/31/2033	5	370	10	2032	Drill Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.04	0.20	2.88	0.00	-	0.01	0.01	-	0.01	0.01	407.0	0.02	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (C	6/1/2032	10/31/2033	5	370	10	2032	Track Loader	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.06	0.30	4.31	0.01	-	0.01	0.01	-	0.01	0.01	616.5	0.03	0.01
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (C	6/1/2032	10/31/2033	5	370	10	2032	Telescoping Fork	Rough Terrain Forklifts	3	8.5	96	0.4	Diesel	Tier 4 Final	0.11	0.56	7.99	0.01	-	0.02	0.02	-	0.02	0.02	1141.4	0.05	0.01
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (C	6/1/2032	10/31/2033	5	370	10	2032	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (C	6/1/2032	10/31/2033	5	370	10	2032	Mini Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (C	6/1/2032	10/31/2033	5	370	10	2032	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (C	6/1/2032	10/31/2033	5	370	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (C	6/1/2032	10/31/2033	5	370	10	2032	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.08	0.65	0.45	0.00	-	0.03	0.03	-	0.02	0.02	86.7	0.00	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (C	6/1/2032	10/31/2033	5	370	10	2032	Generator	Generator Sets	3	8.5	14	0.74	Diesel	Fleet Avg	0.31	2.48	1.65	0.00	-	0.10	0.10	-	0.09	0.09	331.0	0.01	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Asse	11/1/2033	11/30/2033	5	22	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Asse	11/1/2033	11/30/2033	5	22	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Asse	11/1/2033	11/30/2033	5	22	10	2033	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Asse	11/1/2033	11/30/2033	5	22	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Asse	11/1/2033	11/30/2033	5	22	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Asse	11/1/2033	11/30/2033	5	22	10	2033	Manlift	Aerial Lifts	3	8.5	46	0.31	Diesel	Fleet Avg	0.12	2.29	2.45	0.00	-	0.01	0.01	-	0.01	0.01	470.5	0.02	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	2033	Telescoping Fork	Rough Terrain Forklifts	3	8.5	96	0.4	Diesel	Tier 4 Final	0.11	0.56	7.99	0.01	-	0.02	0.02	-	0.02	0.02	1141.4	0.05	0.01
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	2033	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	2033	Mini Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	2033	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.08	0.65	0.45	0.00	-	0.02	0.02	-	0.02	0.02	86.7	0.00	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	2033	Generator	Generator Sets	3	8.5	14	0.74	Diesel	Fleet Avg	0.31	2.48	1.65	0.00	-	0.10	0.10	-	0.09	0.09	331.0	0.01	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.16	1.49	1.92	0.00	-	0.02	0.02	-	0.02	0.02	259.3	0.01	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.08	0.85	1.07	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.08	0.85	1.07	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.15	1.47	1.91	0.00	-	0.02	0.02	-	0.02	0.02	259.1	0.01	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	2	8.5	83	0.5	Diesel	Tier 4 Final	0.08	0.40	5.75	0.01	-	0.02	0.02	-	0.02	0.02	814.0	0.03	0.01
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	2032	Crawler Crane	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.20	1.04	10.37	0.02	-	0.04	0.04	-	0.04	0.04	2104.6	0.09	0.02
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	2032	Hydraulic Crane	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.20	1.04	10.37	0.02	-	0.04	0.04	-	0.04	0.04	2104.6	0.09	0.02
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	2032	Telescoping Fork	Rough Terrain Forklifts	4	8.5	96	0.4	Diesel	Tier 4 Final	0.14	0.75	10.65	0.01	-	0.03	0.03	-	0.03	0.03	1521.9	0.06	0.01
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.06	0.30	4.31	0.01	-	0.01	0.01	-	0.01	0.01	616.5	0.03	0.01
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	2032	Med. Excavator	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.15	1.68	2.13	0.00	-	0.03	0.03	-	0.02	0.02	301.5	0.01	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	2032	Concrete Pump	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.17	1.29	0.91	0.00	-	0.05	0.05	-	0.05	0.05	173.4	0.01	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	2032	Generator	Generator Sets	4	8.5	14	0.74	Diesel	Fleet Avg	0.41	3.30	2.20	0.01	-	0.13	0.13	-	0.12	0.12	441.3	0.02	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembl	5/1/2033	10/31/2033	5	131	10	2033	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembl	5/1/2033	10/31/2033	5	131	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembl	5/1/2033	10/31/2033	5	131	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembl	5/1/2033	10/31/2033	5	131	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembl	5/1/2033	10/31/2033	5	131	10	2033	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembl	5/1/2033	10/31/2033	5	131	10	2033	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.08	0.65	0.45	0.00	-	0.02	0.02	-	0.02	0.02	86.7	0.00	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembl	5/1/2033	10/31/2033	5	131	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.16	1.49	1.92	0.00	-	0.02	0.02	-	0.02	0.02	259.3	0.01	0.00
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.08	0.84	1.07	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.08	0.84	1.07	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.15	1.45	1.91	0.00	-	0.02	0.02	-	0.02	0.02	258.8	0.01	0.00
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.04	0.20	2.88	0.00	-	0.01	0.01	-	0.01	0.01	407.0	0.02	0.00
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.08	0.65	0.45	0.00	-	0.03	0.03	-	0.02	0.02	86.7	0.00	0.00
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 3

OFFROAD EQUIPMENT (ONSITE)[1]

															Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.03	0.28	0.35	0.00	-	0.01	0.01	-	0.01	0.01	44.8	0.00	0.00	44.9
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.03	0.28	0.35	0.00	-	0.01	0.01	-	0.01	0.01	44.8	0.00	0.00	44.9
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.02	0.10	1.38	0.00	-	0.00	0.00	-	0.00	0.00	179.4	0.01	0.00	180.0
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.01	0.05	0.71	0.00	-	0.00	0.00	-	0.00	0.00	91.6	0.00	0.00	91.9
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.05	0.48	0.63	0.00	-	0.01	0.01	-	0.01	0.01	77.0	0.00	0.00	77.2
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.01	0.09	0.07	0.00	-	0.00	0.00	-	0.00	0.00	10.9	0.00	0.00	10.9
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.01	0.06	0.87	0.00	-	0.00	0.00	-	0.00	0.00	113.0	0.00	0.00	113.4
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (C	6/1/2032	10/31/2033	5	370	10	2032	Drill Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.01	0.04	0.53	0.00	-	0.00	0.00	-	0.00	0.00	68.3	0.00	0.00	68.5
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (C	6/1/2032	10/31/2033	5	370	10	2032	Track Loader	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.01	0.06	0.80	0.00	-	0.00	0.00	-	0.00	0.00	103.5	0.00	0.00	103.8
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (C	6/1/2032	10/31/2033	5	370	10	2032	Telescoping Fork	Rough Terrain Forklifts	3	8.5	96	0.4	Diesel	Tier 4 Final	0.02	0.10	1.48	0.00	-	0.00	0.00	-	0.00	0.00	191.6	0.01	0.00	192.2
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (C	6/1/2032	10/31/2033	5	370	10	2032	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.02	0.10	0.96	0.00	-	0.00	0.00	-	0.00	0.00	176.6	0.01	0.00	177.2
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (C	6/1/2032	10/31/2033	5	370	10	2032	Mini Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.16	0.20	0.00	-	0.00	0.00	-	0.00	0.00	25.3	0.00	0.00	25.4
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (C	6/1/2032	10/31/2033	5	370	10	2032	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.02	0.10	0.96	0.00	-	0.00	0.00	-	0.00	0.00	176.6	0.01	0.00	177.2
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (C	6/1/2032	10/31/2033	5	370	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.01	0.03	0.40	0.00	-	0.00	0.00	-	0.00	0.00	51.7	0.00	0.00	51.9
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (C	6/1/2032	10/31/2033	5	370	10	2032	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.02	0.12	0.08	0.00	-	0.00	0.00	-	0.00	0.00	14.5	0.00	0.00	14.6
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (C	6/1/2032	10/31/2033	5	370	10	2032	Generator	Generator Sets	3	8.5	14	0.74	Diesel	Fleet Avg	0.06	0.46	0.31	0.00	-	0.02	0.02	-	0.02	0.02	55.5	0.00	0.00	55.7
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Asse	11/1/2033	11/30/2033	5	22	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.00	0.01	0.06	0.00	-	0.00	0.00	-	0.00	0.00	10.5	0.00	0.00	10.5
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Asse	11/1/2033	11/30/2033	5	22	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.00	0.06	0.00	-	0.00	0.00	-	0.00	0.00	7.6	0.00	0.00	7.6
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Asse	11/1/2033	11/30/2033	5	22	10	2033	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.00	0.01	0.06	0.00	-	0.00	0.00	-	0.00	0.00	10.5	0.00	0.00	10.5
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Asse	11/1/2033	11/30/2033	5	22	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.00	0.02	0.00	-	0.00	0.00	-	0.00	0.00	3.1	0.00	0.00	3.1
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Asse	11/1/2033	11/30/2033	5	22	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.00	0.02	0.01	0.00	-	0.00	0.00	-	0.00	0.00	2.2	0.00	0.00	2.2
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Asse	11/1/2033	11/30/2033	5	22	10	2033	Manlift	Aerial Lifts	3	8.5	46	0.31	Diesel	Fleet Avg	0.00	0.03	0.03	0.00	-	0.00	0.00	-	0.00	0.00	4.7	0.00	0.00	4.7
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	2033	Telescoping Fork	Rough Terrain Forklifts	3	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.01	0.18	0.00	-	0.00	0.00	-	0.00	0.00	22.8	0.00	0.00	22.9
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	2033	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.00	0.01	0.11	0.00	-	0.00	0.00	-	0.00	0.00	21.0	0.00	0.00	21.1
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	2033	Mini Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.02	0.02	0.00	-	0.00	0.00	-	0.00	0.00	3.0	0.00	0.00	3.0
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.00	0.01	0.11	0.00	-	0.00	0.00	-	0.00	0.00	21.0	0.00	0.00	21.1
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.00	0.05	0.00	-	0.00	0.00	-	0.00	0.00	6.2	0.00	0.00	6.2
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	2033	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.00	0.01	0.01	0.00	-	0.00	0.00	-	0.00	0.00	1.7	0.00	0.00	1.7
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	2033	Generator	Generator Sets	3	8.5	14	0.74	Diesel	Fleet Avg	0.01	0.05	0.04	0.00	-	0.00	0.00	-	0.00	0.00	6.6	0.00	0.00	6.6
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.05	0.44	0.57	0.00	-	0.01	0.01	-	0.01	0.01	71.5	0.00	0.00	71.7
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.05	0.44	0.57	0.00	-	0.01	0.01	-	0.01	0.01	71.5	0.00	0.00	71.7
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.03	0.15	2.20	0.00	-	0.01	0.01	-	0.01	0.01	286.2	0.01	0.00	287.2
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.02	0.08	1.13	0.00	-	0.00	0.00	-	0.00	0.00	146.1	0.01	0.00	146.6
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.08	0.78	1.00	0.00	-	0.01	0.01	-	0.01	0.01	122.9	0.00	0.00	123.4
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.02	0.14	0.12	0.00	-	0.01	0.01	-	0.01	0.01	17.4	0.00	0.00	17.4
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.02	0.10	1.39	0.00	-	0.00	0.00	-	0.00	0.00	180.3	0.01	0.00	181.0
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.03	0.28	0.35	0.00	-	0.01	0.01	-	0.01	0.01	44.8	0.00	0.00	44.9
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.03	0.28	0.35	0.00	-	0.01	0.01	-	0.01	0.01	44.8	0.00	0.00	44.9
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.02	0.10	1.38	0.00	-	0.00	0.00	-	0.00	0.00	179.4	0.01	0.00	180.0
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.01	0.05	0.71	0.00	-	0.00	0.00	-	0.00	0.00	91.6	0.00	0.00	91.9
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.05	0.48	0.63	0.00	-	0.01	0.01	-	0.01	0.01	77.0	0.00	0.00	77.2
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.01	0.09	0.07	0.00	-	0.00	0.00	-	0.00	0.00	10.9	0.00	0.00	10.9
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.01	0.06	0.87	0.00	-	0.00	0.00	-	0.00	0.00	113.0	0.00	0.00	113.4
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	2	8.5	83	0.5	Diesel	Tier 4 Final	0.01	0.04	0.62	0.00	-	0.00	0.00	-	0.00	0.00	80.1	0.00	0.00	80.4
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	2032	Crawler Crane	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.02	0.11	1.13	0.00	-	0.00	0.00	-	0.00	0.00	207.2	0.01	0.00	207.9
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	2032	Hydraulic Crane	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.02	0.11	1.13	0.00	-	0.00	0.00	-	0.00	0.00	207.2	0.01	0.00	207.9
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	2032	Telescoping Fork	Rough Terrain Forklifts	4	8.5	96	0.4	Diesel	Tier 4 Final	0.02	0.08	1.16	0.00	-	0.00	0.00	-	0.00	0.00	149.8	0.01	0.00	150.3
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.01	0.03	0.47	0.00	-	0.00	0.00	-	0.00	0.00	60.7	0.00	0.00	60.9
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	2032	Med. Excavator	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.02	0.18	0.23	0.00	-	0.00	0.00	-	0.00	0.00	29.7	0.00	0.00	29.8
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	2032	Concrete Pump	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.02	0.14	0.10	0.00	-	0.01	0.01	-	0.01	0.01	17.1	0.00	0.00	17.1
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	2032	Generator	Generator Sets	4	8.5	14	0.74	Diesel	Fleet Avg	0.04	0.36	0.24	0.00	-	0.01	0.01	-	0.01	0.01	43.4	0.00	0.00	43.6
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembl	5/1/2033	10/31/2033	5	131	10	2033	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.01	0.03	0.34	0.00	-	0.00	0.00	-	0.00	0.00	62.5	0.00	0.00	62.7
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembl	5/1/2033	10/31/2033	5	131	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.01	0.03	0.34	0.00	-	0.00	0.00	-	0.00	0.00	62.5	0.00	0.00	62.7
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembl	5/1/2033	10/31/2033	5	131	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.02	0.35	0.00	-	0.00	0.00	-	0.00	0.00	45.2	0.00	0.00	45.4
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembl	5/1/2033	10/31/2033	5	131	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.14	0.00	-	0.00	0.00	-	0.00	0.00	18.3	0.00	0.00	18.4
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembl	5/1/2033	10/31/2033	5	131	10	2033	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.05	0.07	0.00	-	0.00	0.00	-	0.00	0.00	9.0	0.00	0.00	9.0
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembl	5/1/2033	10/31/2033	5	131	10	2033	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.01	0.04	0.03	0.00	-	0.00	0.00	-	0.00	0.00	5.2	0.00	0.00	5.2
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembl	5/1/2033	10/31/2033	5	131	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.01	0.11	0.07	0.00	-	0.00	0.00	-	0.00	0.00	13.1	0.00	0.00	13.2
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.00	0.01	0.11	0.00	-	0.00	0.00	-	0.00	0.00	21.0	0.00	0.00	21.1
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.01	0.12	0.00	-	0.00	0.00	-	0.00	0.00	15.2	0.00	0.00	15.2
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.00	0.04	0.02	0.00	-	0.00	0.00	-	0.00	0.00	4.4	0.00	0.00	4.4
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.03	0.28	0.35	0.00	-	0.01	0.01	-	0.01	0.01	44.5	0.00	0.00	44.7
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.03	0.28	0.35	0.00	-	0.01	0.01	-	0.01	0.01	44.5	0.00	0.00	44.7
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.02	0.10	1.37	0.00	-	0.00	0.00	-	0.00	0.00	178.3	0.01	0.00	178.9
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.01	0.05	0.70	0.00	-	0.00	0.00	-	0.00	0.00	91.0	0.00	0.00	91.3
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.05	0.48	0.63	0.00	-	0.01	0.01	-	0.01	0.01	76.6	0.00	0.00	76.8
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.01	0.09	0.07	0.00	-	0.00	0.00	-	0.00	0.00	10.8	0.00	0.00	10.9
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.01	0.06	0.87	0.00	-	0.00	0.00	-	0.00	0.00	112.3	0.00	0.00	112.7
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.08	0.11	0.00	-	0.00	0.00	-	0.00	0.00	13.5	0.00	0.00	13.5
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.08	0.11	0.00	-	0.00	0.00	-	0.00	0.00	13.5	0.00	0.00	13.5
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.01	0.03	0.41	0.00	-	0.00	0.00	-	0.00	0.00	54.0	0.00	0.00	54.1
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.21	0.00	-	0.00	0.00	-	0.00	0.00	27.5	0.00	0.00	27.6
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.01	0.14	0.19	0.00	-	0.00	0.00	-	0.00	0.00	23.1	0.00	0.00	23.2
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.03	0.02	0.00	-	0.00	0.00	-	0.00	0.00	3.3	0.00	0.00	3.3
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.02	0.26	0.00	-	0.00	0.00	-	0.00	0.00	34.0	0.00	0.00	34.1
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.00	0.02	0.34	0.00	-	0.00	0.00	-	0.00	0.00	43.9	0.00	0.00	44.1
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.01	0.06	0.62	0.00	-	0.00	0.00	-	0.00	0.00	113.6	0.00	0.00	114.0
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.01	0.06	0.62	0.00	-	0.00	0.00	-	0.00	0.00	113.6	0.00	0.00	114.0
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.01	0.04	0.63	0.00	-	0.00	0.00	-	0.00	0.00	82.1	0.00	0.00	82.4
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.02	0.26	0.00	-	0.00	0.00	-	0.00	0.00	33.3	0.00	0.00	33.4
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.10	0.13	0.00	-	0.00	0.00	-	0.00	0.00	16.3	0.00	0.00	16.3
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.01	0.08	0.05	0.00	-	0.00	0.00	-	0.00	0.00	9.4	0.00	0.00	9.4
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.02	0.20	0.13	0.00	-	0.01	0.01	-	0.01	0.01	23.8	0.00	0.00	23.9

Sepulveda Transit Corridor Project - ALTERNATIVE 3

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Emission Factor (g/bhp-hr)[3] ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.31	0.02	0.00
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.31	0.02	0.00
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.35	3.29	4.26	0.01	-	0.05	0.05	-	0.04	0.04	574.49	0.02	0.00
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.34	0.02	0.00
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.31	3.28	4.17	0.01	-	0.06	0.06	-	0.05	0.05	588.07	0.02	0.00
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.31	3.28	4.17	0.01	-	0.06	0.06	-	0.05	0.05	588.07	0.02	0.00
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.33	3.22	4.23	0.01	-	0.04	0.04	-	0.03	0.03	573.27	0.02	0.00
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.29	0.02	0.00
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.33	0.02	0.00
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.29	3.27	4.15	0.01	-	0.05	0.05	-	0.05	0.05	588.07	0.02	0.00
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.33	0.02	0.00
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.26	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.31	0.02	0.00
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.31	0.02	0.00
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.35	3.29	4.26	0.01	-	0.05	0.05	-	0.04	0.04	574.49	0.02	0.00
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.34	0.02	0.00
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.31	3.28	4.17	0.01	-	0.06	0.06	-	0.05	0.05	588.07	0.02	0.00
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.31	3.28	4.17	0.01	-	0.06	0.06	-	0.05	0.05	588.07	0.02	0.00
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.33	3.22	4.23	0.01	-	0.04	0.04	-	0.03	0.03	573.27	0.02	0.00
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.29	0.02	0.00
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.33	0.02	0.00
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.29	3.27	4.15	0.01	-	0.05	0.05	-	0.05	0.05	588.07	0.02	0.00
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.33	0.02	0.00
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.26	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.27	3.24	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.34	0.02	0.00
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 3

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Daily Emissions (lb/day) ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.08	0.65	0.45	0.00	-	0.02	0.02	-	0.02	0.02	86.7	0.00	0.00
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.16	1.49	1.92	0.00	-	0.02	0.02	-	0.02	0.02	259.3	0.01	0.00
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.08	0.84	1.07	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.08	0.84	1.07	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.15	1.45	1.91	0.00	-	0.02	0.02	-	0.02	0.02	258.8	0.01	0.00
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.04	0.20	2.88	0.00	-	0.01	0.01	-	0.01	0.01	407.0	0.02	0.00
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.08	0.65	0.45	0.00	-	0.02	0.02	-	0.02	0.02	86.7	0.00	0.00
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.08	0.65	0.45	0.00	-	0.02	0.02	-	0.02	0.02	86.7	0.00	0.00
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.16	1.49	1.92	0.00	-	0.02	0.02	-	0.02	0.02	259.3	0.01	0.00
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.08	0.84	1.07	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.08	0.84	1.07	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.15	1.45	1.91	0.00	-	0.02	0.02	-	0.02	0.02	258.8	0.01	0.00
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.04	0.20	2.88	0.00	-	0.01	0.01	-	0.01	0.01	407.0	0.02	0.00
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.08	0.65	0.45	0.00	-	0.03	0.03	-	0.02	0.02	86.7	0.00	0.00
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.83	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.08	0.64	0.45	0.00	-	0.02	0.02	-	0.02	0.02	86.7	0.00	0.00
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 3

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Total Emissions (tons) ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	Total Emissions (metric tons) CO_2	CH_4	N_2O	CO_2e
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.00	0.01	0.06	0.00	-	0.00	0.00	-	0.00	0.00	11.0	0.00	0.00	11.0
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.00	0.01	0.06	0.00	-	0.00	0.00	-	0.00	0.00	11.0	0.00	0.00	11.0
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.00	0.06	0.00	-	0.00	0.00	-	0.00	0.00	7.9	0.00	0.00	8.0
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.00	0.02	0.00	-	0.00	0.00	-	0.00	0.00	3.2	0.00	0.00	3.2
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.01	0.01	0.00	-	0.00	0.00	-	0.00	0.00	1.6	0.00	0.00	1.6
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.00	0.01	0.01	0.00	-	0.00	0.00	-	0.00	0.00	0.9	0.00	0.00	0.9
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.00	0.02	0.01	0.00	-	0.00	0.00	-	0.00	0.00	2.3	0.00	0.00	2.3
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.02	0.13	1.29	0.00	-	0.00	0.00	-	0.00	0.00	238.2	0.01	0.00	239.0
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.02	0.09	1.33	0.00	-	0.00	0.00	-	0.00	0.00	172.2	0.01	0.00	172.8
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.05	0.41	0.28	0.00	-	0.02	0.02	-	0.01	0.01	49.9	0.00	0.00	50.1
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.03	0.28	0.35	0.00	-	0.01	0.01	-	0.01	0.01	44.5	0.00	0.00	44.7
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.03	0.28	0.35	0.00	-	0.01	0.01	-	0.01	0.01	44.5	0.00	0.00	44.7
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.02	0.10	1.37	0.00	-	0.00	0.00	-	0.00	0.00	178.3	0.01	0.00	178.9
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.01	0.05	0.70	0.00	-	0.00	0.00	-	0.00	0.00	91.0	0.00	0.00	91.3
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.05	0.48	0.63	0.00	-	0.01	0.01	-	0.01	0.01	76.6	0.00	0.00	76.8
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.01	0.09	0.07	0.00	-	0.00	0.00	-	0.00	0.00	10.8	0.00	0.00	10.9
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.01	0.06	0.87	0.00	-	0.00	0.00	-	0.00	0.00	112.3	0.00	0.00	112.7
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.08	0.11	0.00	-	0.00	0.00	-	0.00	0.00	13.5	0.00	0.00	13.5
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.08	0.11	0.00	-	0.00	0.00	-	0.00	0.00	13.5	0.00	0.00	13.5
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.01	0.03	0.41	0.00	-	0.00	0.00	-	0.00	0.00	54.0	0.00	0.00	54.1
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.21	0.00	-	0.00	0.00	-	0.00	0.00	27.5	0.00	0.00	27.6
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.01	0.14	0.19	0.00	-	0.00	0.00	-	0.00	0.00	23.1	0.00	0.00	23.2
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.03	0.02	0.00	-	0.00	0.00	-	0.00	0.00	3.3	0.00	0.00	3.3
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.02	0.26	0.00	-	0.00	0.00	-	0.00	0.00	34.0	0.00	0.00	34.1
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.00	0.02	0.28	0.00	-	0.00	0.00	-	0.00	0.00	36.4	0.00	0.00	36.5
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.01	0.05	0.51	0.00	-	0.00	0.00	-	0.00	0.00	94.0	0.00	0.00	94.4
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.01	0.05	0.51	0.00	-	0.00	0.00	-	0.00	0.00	94.0	0.00	0.00	94.4
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.01	0.04	0.52	0.00	-	0.00	0.00	-	0.00	0.00	68.0	0.00	0.00	68.2
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.21	0.00	-	0.00	0.00	-	0.00	0.00	27.5	0.00	0.00	27.6
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.08	0.10	0.00	-	0.00	0.00	-	0.00	0.00	13.5	0.00	0.00	13.5
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.01	0.06	0.04	0.00	-	0.00	0.00	-	0.00	0.00	7.7	0.00	0.00	7.8
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.02	0.16	0.11	0.00	-	0.01	0.01	-	0.01	0.01	19.7	0.00	0.00	19.8
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.00	0.02	0.17	0.00	-	0.00	0.00	-	0.00	0.00	30.5	0.00	0.00	30.7
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.00	0.02	0.17	0.00	-	0.00	0.00	-	0.00	0.00	30.5	0.00	0.00	30.7
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.01	0.17	0.00	-	0.00	0.00	-	0.00	0.00	22.1	0.00	0.00	22.2
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.00	0.07	0.00	-	0.00	0.00	-	0.00	0.00	8.9	0.00	0.00	9.0
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.03	0.03	0.00	-	0.00	0.00	-	0.00	0.00	4.4	0.00	0.00	4.4
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.00	0.02	0.01	0.00	-	0.00	0.00	-	0.00	0.00	2.5	0.00	0.00	2.5
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.01	0.05	0.04	0.00	-	0.00	0.00	-	0.00	0.00	6.4	0.00	0.00	6.4
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.02	0.11	1.07	0.00	-	0.00	0.00	-	0.00	0.00	197.1	0.01	0.00	197.8
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.01	0.08	1.10	0.00	-	0.00	0.00	-	0.00	0.00	142.5	0.01	0.00	143.0
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.04	0.34	0.23	0.00	-	0.01	0.01	-	0.01	0.01	41.3	0.00	0.00	41.5
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.03	0.28	0.35	0.00	-	0.01	0.01	-	0.01	0.01	44.5	0.00	0.00	44.7
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.03	0.28	0.35	0.00	-	0.01	0.01	-	0.01	0.01	44.5	0.00	0.00	44.7
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.02	0.10	1.37	0.00	-	0.00	0.00	-	0.00	0.00	178.3	0.01	0.00	178.9
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.01	0.05	0.70	0.00	-	0.00	0.00	-	0.00	0.00	91.0	0.00	0.00	91.3
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.05	0.48	0.63	0.00	-	0.01	0.01	-	0.01	0.01	76.6	0.00	0.00	76.8
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.01	0.09	0.07	0.00	-	0.00	0.00	-	0.00	0.00	10.8	0.00	0.00	10.9
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.01	0.06	0.87	0.00	-	0.00	0.00	-	0.00	0.00	112.3	0.00	0.00	112.7
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.08	0.11	0.00	-	0.00	0.00	-	0.00	0.00	13.5	0.00	0.00	13.5
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.08	0.11	0.00	-	0.00	0.00	-	0.00	0.00	13.5	0.00	0.00	13.5
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.01	0.03	0.41	0.00	-	0.00	0.00	-	0.00	0.00	54.0	0.00	0.00	54.1
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.21	0.00	-	0.00	0.00	-	0.00	0.00	27.5	0.00	0.00	27.6
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.01	0.14	0.19	0.00	-	0.00	0.00	-	0.00	0.00	23.1	0.00	0.00	23.2
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.03	0.02	0.00	-	0.00	0.00	-	0.00	0.00	3.3	0.00	0.00	3.3
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.02	0.26	0.00	-	0.00	0.00	-	0.00	0.00	34.0	0.00	0.00	34.1
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.01	0.05	0.72	0.00	-	0.00	0.00	-	0.00	0.00	92.7	0.00	0.00	93.0
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.03	0.13	1.30	0.00	-	0.01	0.01	-	0.01	0.01	239.6	0.01	0.00	240.4
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.03	0.13	1.30	0.00	-	0.01	0.01	-	0.01	0.01	239.6	0.01	0.00	240.4
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.02	0.09	1.34	0.00	-	0.00	0.00	-	0.00	0.00	173.3	0.01	0.00	173.9
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.01	0.04	0.54	0.00	-	0.00	0.00	-	0.00	0.00	70.2	0.00	0.00	70.4
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.02	0.21	0.27	0.00	-	0.00	0.00	-	0.00	0.00	34.3	0.00	0.00	34.4
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.02	0.16	0.11	0.00	-	0.01	0.01	-	0.01	0.01	19.7	0.00	0.00	19.8
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.05	0.41	0.28	0.00	-	0.02	0.02	-	0.01	0.01	50.2	0.00	0.00	50.4
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.00	0.02	0.22	0.00	-	0.00	0.00	-	0.00	0.00	40.6	0.00	0.00	40.7
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.00	0.02	0.22	0.00	-	0.00	0.00	-	0.00	0.00	40.6	0.00	0.00	40.7
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.02	0.23	0.00	-	0.00	0.00	-	0.00	0.00	29.3	0.00	0.00	29.4
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.09	0.00	-	0.00	0.00	-	0.00	0.00	11.9	0.00	0.00	11.9
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.04	0.04	0.00	-	0.00	0.00	-	0.00	0.00	5.8	0.00	0.00	5.8
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.00	0.03	0.02	0.00	-	0.00	0.00	-	0.00	0.00	3.3	0.00	0.00	3.4
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.01	0.07	0.05	0.00	-	0.00	0.00	-	0.00	0.00	8.5	0.00	0.00	8.5

Sepulveda Transit Corridor Project - ALTERNATIVE 3

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Emission Factor (g/bhp-hr)[3] ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.35	3.29	4.26	0.01	-	0.05	0.05	-	0.04	0.04	574.49	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.34	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.31	3.28	4.17	0.01	-	0.06	0.06	-	0.05	0.05	588.07	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.31	3.28	4.17	0.01	-	0.06	0.06	-	0.05	0.05	588.07	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.33	3.22	4.23	0.01	-	0.04	0.04	-	0.03	0.03	573.27	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.29	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.33	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.29	3.27	4.15	0.01	-	0.05	0.05	-	0.05	0.05	588.07	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.33	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.26	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.31	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.31	0.02	0.00
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.35	3.29	4.26	0.01	-	0.05	0.05	-	0.04	0.04	574.49	0.02	0.00
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.34	0.02	0.00
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.31	3.28	4.17	0.01	-	0.06	0.06	-	0.05	0.05	588.07	0.02	0.00
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.31	3.28	4.17	0.01	-	0.06	0.06	-	0.05	0.05	588.07	0.02	0.00
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.33	3.22	4.23	0.01	-	0.04	0.04	-	0.03	0.03	573.27	0.02	0.00
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.29	0.02	0.00
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.33	0.02	0.00
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.29	3.27	4.15	0.01	-	0.05	0.05	-	0.05	0.05	588.07	0.02	0.00
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.33	0.02	0.00
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.26	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.31	0.02	0.00
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.31	0.02	0.00
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.35	3.29	4.26	0.01	-	0.05	0.05	-	0.04	0.04	574.49	0.02	0.00
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.34	0.02	0.00
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 3

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Daily Emissions (lb/day)												
															ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.16	1.49	1.92	0.00	-	0.02	0.02	-	0.02	0.02	259.3	0.01	0.00
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.08	0.84	1.07	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.08	0.84	1.07	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.15	1.45	1.91	0.00	-	0.02	0.02	-	0.02	0.02	258.8	0.01	0.00
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.04	0.20	2.88	0.00	-	0.01	0.01	-	0.01	0.01	407.0	0.02	0.00
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.08	0.65	0.45	0.00	-	0.03	0.03	-	0.02	0.02	86.7	0.00	0.00
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.08	0.65	0.45	0.00	-	0.02	0.02	-	0.02	0.02	86.7	0.00	0.00
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.16	1.49	1.92	0.00	-	0.02	0.02	-	0.02	0.02	259.3	0.01	0.00
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.08	0.84	1.07	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.08	0.84	1.07	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.15	1.45	1.91	0.00	-	0.02	0.02	-	0.02	0.02	258.8	0.01	0.00
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.04	0.20	2.88	0.00	-	0.01	0.01	-	0.01	0.01	407.0	0.02	0.00
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.08	0.65	0.45	0.00	-	0.03	0.03	-	0.02	0.02	86.7	0.00	0.00
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.08	0.65	0.45	0.00	-	0.02	0.02	-	0.02	0.02	86.7	0.00	0.00
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.16	1.49	1.92	0.00	-	0.02	0.02	-	0.02	0.02	259.3	0.01	0.00
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 3

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Total Emissions (tons) ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	Total Emissions (metric tons) CO_2	CH_4	N_2O	CO_2e
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.02	0.10	0.96	0.00	-	0.00	0.00	-	0.00	0.00	176.6	0.01	0.00	177.2
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.01	0.07	0.99	0.00	-	0.00	0.00	-	0.00	0.00	127.7	0.01	0.00	128.1
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.04	0.31	0.20	0.00	-	0.01	0.01	-	0.01	0.01	37.0	0.00	0.00	37.2
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.03	0.28	0.35	0.00	-	0.01	0.01	-	0.01	0.01	44.5	0.00	0.00	44.7
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.03	0.28	0.35	0.00	-	0.01	0.01	-	0.01	0.01	44.5	0.00	0.00	44.7
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.02	0.10	1.37	0.00	-	0.00	0.00	-	0.00	0.00	178.3	0.01	0.00	178.9
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.01	0.05	0.70	0.00	-	0.00	0.00	-	0.00	0.00	91.0	0.00	0.00	91.3
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.05	0.48	0.63	0.00	-	0.01	0.01	-	0.01	0.01	76.6	0.00	0.00	76.8
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.01	0.09	0.07	0.00	-	0.00	0.00	-	0.00	0.00	10.8	0.00	0.00	10.9
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.01	0.06	0.87	0.00	-	0.00	0.00	-	0.00	0.00	112.3	0.00	0.00	112.7
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.08	0.11	0.00	-	0.00	0.00	-	0.00	0.00	13.5	0.00	0.00	13.5
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.08	0.11	0.00	-	0.00	0.00	-	0.00	0.00	13.5	0.00	0.00	13.5
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.01	0.03	0.41	0.00	-	0.00	0.00	-	0.00	0.00	54.0	0.00	0.00	54.1
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.21	0.00	-	0.00	0.00	-	0.00	0.00	27.5	0.00	0.00	27.6
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.01	0.14	0.19	0.00	-	0.00	0.00	-	0.00	0.00	23.1	0.00	0.00	23.2
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.03	0.02	0.00	-	0.00	0.00	-	0.00	0.00	3.3	0.00	0.00	3.3
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.02	0.26	0.00	-	0.00	0.00	-	0.00	0.00	34.0	0.00	0.00	34.1
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.01	0.03	0.41	0.00	-	0.00	0.00	-	0.00	0.00	52.1	0.00	0.00	52.2
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.01	0.07	0.73	0.00	-	0.00	0.00	-	0.00	0.00	134.6	0.01	0.00	135.1
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.01	0.07	0.73	0.00	-	0.00	0.00	-	0.00	0.00	134.6	0.01	0.00	135.1
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.01	0.05	0.75	0.00	-	0.00	0.00	-	0.00	0.00	97.3	0.00	0.00	97.7
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.02	0.30	0.00	-	0.00	0.00	-	0.00	0.00	39.4	0.00	0.00	39.6
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.12	0.15	0.00	-	0.00	0.00	-	0.00	0.00	19.3	0.00	0.00	19.3
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.01	0.09	0.06	0.00	-	0.00	0.00	-	0.00	0.00	11.1	0.00	0.00	11.1
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.03	0.23	0.16	0.00	-	0.01	0.01	-	0.01	0.01	28.2	0.00	0.00	28.3
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.01	0.03	0.29	0.00	-	0.00	0.00	-	0.00	0.00	52.5	0.00	0.00	52.7
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.01	0.03	0.29	0.00	-	0.00	0.00	-	0.00	0.00	52.5	0.00	0.00	52.7
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.02	0.29	0.00	-	0.00	0.00	-	0.00	0.00	38.0	0.00	0.00	38.1
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.12	0.00	-	0.00	0.00	-	0.00	0.00	15.4	0.00	0.00	15.4
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.05	0.06	0.00	-	0.00	0.00	-	0.00	0.00	7.5	0.00	0.00	7.5
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.00	0.04	0.02	0.00	-	0.00	0.00	-	0.00	0.00	4.3	0.00	0.00	4.3
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.01	0.09	0.06	0.00	-	0.00	0.00	-	0.00	0.00	11.0	0.00	0.00	11.0
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.02	0.08	0.84	0.00	-	0.00	0.00	-	0.00	0.00	155.1	0.01	0.00	155.7
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.01	0.06	0.87	0.00	-	0.00	0.00	-	0.00	0.00	112.2	0.00	0.00	112.6
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.03	0.27	0.18	0.00	-	0.01	0.01	-	0.01	0.01	32.5	0.00	0.00	32.6
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.03	0.28	0.35	0.00	-	0.01	0.01	-	0.01	0.01	44.5	0.00	0.00	44.7
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.03	0.28	0.35	0.00	-	0.01	0.01	-	0.01	0.01	44.5	0.00	0.00	44.7
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.02	0.10	1.37	0.00	-	0.00	0.00	-	0.00	0.00	178.3	0.01	0.00	178.9
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.01	0.05	0.70	0.00	-	0.00	0.00	-	0.00	0.00	91.0	0.00	0.00	91.3
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.05	0.48	0.63	0.00	-	0.01	0.01	-	0.01	0.01	76.6	0.00	0.00	76.8
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.01	0.09	0.07	0.00	-	0.00	0.00	-	0.00	0.00	10.8	0.00	0.00	10.9
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.01	0.06	0.87	0.00	-	0.00	0.00	-	0.00	0.00	112.3	0.00	0.00	112.7
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.08	0.11	0.00	-	0.00	0.00	-	0.00	0.00	13.5	0.00	0.00	13.5
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.08	0.11	0.00	-	0.00	0.00	-	0.00	0.00	13.5	0.00	0.00	13.5
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.01	0.03	0.41	0.00	-	0.00	0.00	-	0.00	0.00	54.0	0.00	0.00	54.1
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.21	0.00	-	0.00	0.00	-	0.00	0.00	27.5	0.00	0.00	27.6
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.01	0.14	0.19	0.00	-	0.00	0.00	-	0.00	0.00	23.1	0.00	0.00	23.2
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.03	0.02	0.00	-	0.00	0.00	-	0.00	0.00	3.3	0.00	0.00	3.3
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.02	0.26	0.00	-	0.00	0.00	-	0.00	0.00	34.0	0.00	0.00	34.1
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.00	0.02	0.28	0.00	-	0.00	0.00	-	0.00	0.00	36.4	0.00	0.00	36.5
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.01	0.05	0.51	0.00	-	0.00	0.00	-	0.00	0.00	94.0	0.00	0.00	94.4
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.01	0.05	0.51	0.00	-	0.00	0.00	-	0.00	0.00	94.0	0.00	0.00	94.4
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.01	0.04	0.52	0.00	-	0.00	0.00	-	0.00	0.00	68.0	0.00	0.00	68.2
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.21	0.00	-	0.00	0.00	-	0.00	0.00	27.5	0.00	0.00	27.6
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.08	0.10	0.00	-	0.00	0.00	-	0.00	0.00	13.5	0.00	0.00	13.5
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.01	0.06	0.04	0.00	-	0.00	0.00	-	0.00	0.00	7.7	0.00	0.00	7.8
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.02	0.16	0.11	0.00	-	0.01	0.01	-	0.01	0.01	19.7	0.00	0.00	19.8
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.01	0.03	0.28	0.00	-	0.00	0.00	-	0.00	0.00	51.1	0.00	0.00	51.2
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.01	0.03	0.28	0.00	-	0.00	0.00	-	0.00	0.00	51.1	0.00	0.00	51.2
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.02	0.28	0.00	-	0.00	0.00	-	0.00	0.00	36.9	0.00	0.00	37.1
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.12	0.00	-	0.00	0.00	-	0.00	0.00	15.0	0.00	0.00	15.0
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.04	0.06	0.00	-	0.00	0.00	-	0.00	0.00	7.3	0.00	0.00	7.3
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.00	0.03	0.02	0.00	-	0.00	0.00	-	0.00	0.00	4.2	0.00	0.00	4.2
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.01	0.09	0.06	0.00	-	0.00	0.00	-	0.00	0.00	10.7	0.00	0.00	10.7
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.01	0.07	0.68	0.00	-	0.00	0.00	-	0.00	0.00	124.6	0.01	0.00	125.0
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.01	0.05	0.69	0.00	-	0.00	0.00	-	0.00	0.00	90.1	0.00	0.00	90.4
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.03	0.22	0.14	0.00	-	0.01	0.01	-	0.01	0.01	26.1	0.00	0.00	26.2
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.04	0.34	0.44	0.00	-	0.01	0.01	-	0.01	0.01	55.0	0.00	0.00	55.2
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.04	0.34	0.44	0.00	-	0.01	0.01	-	0.01	0.01	55.0	0.00	0.00	55.2
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.02	0.12	1.69	0.00	-	0.00	0.00	-	0.00	0.00	220.5	0.01	0.00	221.2
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.01	0.06	0.87	0.00	-	0.00	0.00	-	0.00	0.00	112.6	0.00	0.00	112.9
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.06	0.60	0.77	0.00	-	0.01	0.01	-	0.01	0.01	94.7	0.00	0.00	95.0
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.01	0.11	0.09	0.00	-	0.00	0.00	-	0.00	0.00	13.4	0.00	0.00	13.4
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.01	0.08	1.07	0.00	-	0.00	0.00	-	0.00	0.00	138.9	0.01	0.00	139.4

Sepulveda Transit Corridor Project - ALTERNATIVE 3

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Emission Factor (g/bhp-hr)[3] ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.33	3.30	4.19	0.01	-	0.07	0.07	-	0.06	0.06	588.07	0.02	0.00
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.33	3.30	4.19	0.01	-	0.07	0.07	-	0.06	0.06	588.07	0.02	0.00
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.34	3.25	4.24	0.01	-	0.04	0.04	-	0.04	0.04	574.00	0.02	0.00
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.37	0.02	0.00
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.33	0.02	0.00
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.29	3.27	4.15	0.01	-	0.05	0.05	-	0.05	0.05	588.07	0.02	0.00
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.33	0.02	0.00
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.26	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.27	3.24	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.34	0.02	0.00
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
UCLA Gateway MRT Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
UCLA Gateway MRT Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
UCLA Gateway MRT Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.32	0.02	0.00
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.35	3.29	4.26	0.01	-	0.05	0.05	-	0.04	0.04	574.49	0.02	0.00
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.34	0.02	0.00
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.33	3.30	4.19	0.01	-	0.07	0.07	-	0.06	0.06	588.07	0.02	0.00
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.33	3.30	4.19	0.01	-	0.07	0.07	-	0.06	0.06	588.07	0.02	0.00
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.34	3.25	4.24	0.01	-	0.04	0.04	-	0.04	0.04	574.00	0.02	0.00
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.37	0.02	0.00
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.33	0.02	0.00
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.29	3.27	4.15	0.01	-	0.05	0.05	-	0.05	0.05	588.07	0.02	0.00
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.33	0.02	0.00
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.26	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.27	3.24	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.34	0.02	0.00
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
Wilshire Blvd-Metro D Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Wilshire Blvd-Metro D Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Wilshire Blvd-Metro D Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.32	0.02	0.00
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.35	3.29	4.26	0.01	-	0.05	0.05	-	0.04	0.04	574.49	0.02	0.00
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.34	0.02	0.00
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.31	3.28	4.17	0.01	-	0.06	0.06	-	0.05	0.05	588.07	0.02	0.00
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.31	3.28	4.17	0.01	-	0.06	0.06	-	0.05	0.05	588.07	0.02	0.00
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.33	3.22	4.23	0.01	-	0.04	0.04	-	0.03	0.03	573.27	0.02	0.00
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.29	0.02	0.00
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.33	0.02	0.00
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.29	3.27	4.15	0.01	-	0.05	0.05	-	0.05	0.05	588.07	0.02	0.00
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.33	0.02	0.00
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.26	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 3

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Daily Emissions (lb/day) ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.08	0.85	1.07	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.08	0.85	1.07	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.15	1.47	1.91	0.00	-	0.02	0.02	-	0.02	0.02	259.1	0.01	0.00
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.04	0.20	2.88	0.00	-	0.01	0.01	-	0.01	0.01	407.0	0.02	0.00
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.08	0.65	0.45	0.00	-	0.03	0.03	-	0.02	0.02	86.7	0.00	0.00
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.83	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.08	0.64	0.45	0.00	-	0.02	0.02	-	0.02	0.02	86.7	0.00	0.00
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
UCLA Gateway MRT Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
UCLA Gateway MRT Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
UCLA Gateway MRT Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.16	1.49	1.92	0.00	-	0.02	0.02	-	0.02	0.02	259.3	0.01	0.00
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.08	0.85	1.07	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.08	0.85	1.07	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.15	1.47	1.91	0.00	-	0.02	0.02	-	0.02	0.02	259.1	0.01	0.00
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.04	0.20	2.88	0.00	-	0.01	0.01	-	0.01	0.01	407.0	0.02	0.00
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.08	0.65	0.45	0.00	-	0.03	0.03	-	0.02	0.02	86.7	0.00	0.00
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.83	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.08	0.64	0.45	0.00	-	0.02	0.02	-	0.02	0.02	86.7	0.00	0.00
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
Wilshire Blvd-Metro D Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Wilshire Blvd-Metro D Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Wilshire Blvd-Metro D Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.16	1.49	1.92	0.00	-	0.02	0.02	-	0.02	0.02	259.3	0.01	0.00
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.08	0.84	1.07	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.08	0.84	1.07	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.15	1.45	1.91	0.00	-	0.02	0.02	-	0.02	0.02	258.8	0.01	0.00
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.04	0.20	2.88	0.00	-	0.01	0.01	-	0.01	0.01	407.0	0.02	0.00
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.08	0.65	0.45	0.00	-	0.03	0.03	-	0.02	0.02	86.7	0.00	0.00
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 3

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Total Emissions (tons) ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	Total Emissions (metric tons) CO_2	CH_4	N_2O	CO_2e
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.02	0.23	0.29	0.00	-	0.00	0.00	-	0.00	0.00	37.2	0.00	0.00	37.3
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.02	0.23	0.29	0.00	-	0.00	0.00	-	0.00	0.00	37.2	0.00	0.00	37.3
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.02	0.08	1.14	0.00	-	0.00	0.00	-	0.00	0.00	149.0	0.01	0.00	149.5
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.01	0.04	0.59	0.00	-	0.00	0.00	-	0.00	0.00	76.1	0.00	0.00	76.3
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.04	0.40	0.52	0.00	-	0.01	0.01	-	0.00	0.00	63.9	0.00	0.00	64.2
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.01	0.07	0.06	0.00	-	0.00	0.00	-	0.00	0.00	9.0	0.00	0.00	9.1
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.01	0.05	0.72	0.00	-	0.00	0.00	-	0.00	0.00	93.9	0.00	0.00	94.2
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.01	0.05	0.75	0.00	-	0.00	0.00	-	0.00	0.00	96.4	0.00	0.00	96.7
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.03	0.14	1.35	0.00	-	0.01	0.01	-	0.01	0.01	249.2	0.01	0.00	250.0
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.03	0.14	1.35	0.00	-	0.01	0.01	-	0.01	0.01	249.2	0.01	0.00	250.0
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.02	0.10	1.39	0.00	-	0.00	0.00	-	0.00	0.00	180.2	0.01	0.00	180.8
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.01	0.04	0.56	0.00	-	0.00	0.00	-	0.00	0.00	73.0	0.00	0.00	73.2
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.02	0.22	0.28	0.00	-	0.00	0.00	-	0.00	0.00	35.7	0.00	0.00	35.8
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.02	0.17	0.12	0.00	-	0.01	0.01	-	0.01	0.01	20.5	0.00	0.00	20.6
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.05	0.43	0.29	0.00	-	0.02	0.02	-	0.02	0.02	52.2	0.00	0.00	52.4
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.03	0.14	1.41	0.00	-	0.01	0.01	-	0.01	0.01	258.7	0.01	0.00	259.6
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.03	0.14	1.41	0.00	-	0.01	0.01	-	0.01	0.01	258.7	0.01	0.00	259.6
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.02	0.10	1.44	0.00	-	0.00	0.00	-	0.00	0.00	187.1	0.01	0.00	187.7
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.01	0.04	0.58	0.00	-	0.00	0.00	-	0.00	0.00	75.8	0.00	0.00	76.0
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.02	0.23	0.29	0.00	-	0.00	0.00	-	0.00	0.00	37.1	0.00	0.00	37.2
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.02	0.17	0.12	0.00	-	0.01	0.01	-	0.01	0.01	21.3	0.00	0.00	21.4
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.06	0.45	0.30	0.00	-	0.02	0.02	-	0.02	0.02	54.2	0.00	0.00	54.4
UCLA Gateway MRT Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.02	0.11	1.13	0.00	-	0.00	0.00	-	0.00	0.00	207.2	0.01	0.00	207.9
UCLA Gateway MRT Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.02	0.08	1.16	0.00	-	0.00	0.00	-	0.00	0.00	149.8	0.01	0.00	150.3
UCLA Gateway MRT Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.04	0.36	0.24	0.00	-	0.01	0.01	-	0.01	0.01	43.4	0.00	0.00	43.6
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.04	0.34	0.44	0.00	-	0.01	0.01	-	0.01	0.01	55.0	0.00	0.00	55.2
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.04	0.34	0.44	0.00	-	0.01	0.01	-	0.01	0.01	55.0	0.00	0.00	55.2
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.02	0.12	1.69	0.00	-	0.00	0.00	-	0.00	0.00	220.5	0.01	0.00	221.2
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.01	0.06	0.87	0.00	-	0.00	0.00	-	0.00	0.00	112.6	0.00	0.00	112.9
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.06	0.60	0.77	0.00	-	0.01	0.01	-	0.01	0.01	94.7	0.00	0.00	95.0
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.01	0.11	0.09	0.00	-	0.00	0.00	-	0.00	0.00	13.4	0.00	0.00	13.4
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.01	0.08	1.07	0.00	-	0.00	0.00	-	0.00	0.00	138.9	0.01	0.00	139.4
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.02	0.23	0.29	0.00	-	0.00	0.00	-	0.00	0.00	37.2	0.00	0.00	37.3
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.02	0.23	0.29	0.00	-	0.00	0.00	-	0.00	0.00	37.2	0.00	0.00	37.3
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.02	0.08	1.14	0.00	-	0.00	0.00	-	0.00	0.00	149.0	0.01	0.00	149.5
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.01	0.04	0.59	0.00	-	0.00	0.00	-	0.00	0.00	76.1	0.00	0.00	76.3
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.04	0.40	0.52	0.00	-	0.01	0.01	-	0.00	0.00	63.9	0.00	0.00	64.2
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.01	0.07	0.06	0.00	-	0.00	0.00	-	0.00	0.00	9.0	0.00	0.00	9.1
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.01	0.05	0.72	0.00	-	0.00	0.00	-	0.00	0.00	93.9	0.00	0.00	94.2
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.01	0.05	0.75	0.00	-	0.00	0.00	-	0.00	0.00	96.4	0.00	0.00	96.7
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.03	0.14	1.35	0.00	-	0.01	0.01	-	0.01	0.01	249.2	0.01	0.00	250.0
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.03	0.14	1.35	0.00	-	0.01	0.01	-	0.01	0.01	249.2	0.01	0.00	250.0
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.02	0.10	1.39	0.00	-	0.00	0.00	-	0.00	0.00	180.2	0.01	0.00	180.8
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.01	0.04	0.56	0.00	-	0.00	0.00	-	0.00	0.00	73.0	0.00	0.00	73.2
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.02	0.22	0.28	0.00	-	0.00	0.00	-	0.00	0.00	35.7	0.00	0.00	35.8
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.02	0.17	0.12	0.00	-	0.01	0.01	-	0.01	0.01	20.5	0.00	0.00	20.6
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.05	0.43	0.29	0.00	-	0.02	0.02	-	0.02	0.02	52.2	0.00	0.00	52.4
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.03	0.14	1.41	0.00	-	0.01	0.01	-	0.01	0.01	258.7	0.01	0.00	259.6
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.03	0.14	1.41	0.00	-	0.01	0.01	-	0.01	0.01	258.7	0.01	0.00	259.6
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.02	0.10	1.44	0.00	-	0.00	0.00	-	0.00	0.00	187.1	0.01	0.00	187.7
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.01	0.04	0.58	0.00	-	0.00	0.00	-	0.00	0.00	75.8	0.00	0.00	76.0
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.02	0.23	0.29	0.00	-	0.00	0.00	-	0.00	0.00	37.1	0.00	0.00	37.2
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.02	0.17	0.12	0.00	-	0.01	0.01	-	0.01	0.01	21.3	0.00	0.00	21.4
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.06	0.45	0.30	0.00	-	0.02	0.02	-	0.02	0.02	54.2	0.00	0.00	54.4
Wilshire Blvd-Metro D Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.02	0.11	1.13	0.00	-	0.00	0.00	-	0.00	0.00	207.2	0.01	0.00	207.9
Wilshire Blvd-Metro D Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.02	0.08	1.16	0.00	-	0.00	0.00	-	0.00	0.00	149.8	0.01	0.00	150.3
Wilshire Blvd-Metro D Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.04	0.36	0.24	0.00	-	0.01	0.01	-	0.01	0.01	43.4	0.00	0.00	43.6
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.03	0.28	0.35	0.00	-	0.01	0.01	-	0.01	0.01	44.5	0.00	0.00	44.7
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.03	0.28	0.35	0.00	-	0.01	0.01	-	0.01	0.01	44.5	0.00	0.00	44.7
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.02	0.10	1.37	0.00	-	0.00	0.00	-	0.00	0.00	178.3	0.01	0.00	178.9
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.01	0.05	0.70	0.00	-	0.00	0.00	-	0.00	0.00	91.0	0.00	0.00	91.3
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.05	0.48	0.63	0.00	-	0.01	0.01	-	0.01	0.01	76.6	0.00	0.00	76.8
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.01	0.09	0.07	0.00	-	0.00	0.00	-	0.00	0.00	10.8	0.00	0.00	10.9
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.01	0.06	0.87	0.00	-	0.00	0.00	-	0.00	0.00	112.3	0.00	0.00	112.7
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.08	0.11	0.00	-	0.00	0.00	-	0.00	0.00	13.5	0.00	0.00	13.5
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.08	0.11	0.00	-	0.00	0.00	-	0.00	0.00	13.5	0.00	0.00	13.5
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.01	0.03	0.41	0.00	-	0.00	0.00	-	0.00	0.00	54.0	0.00	0.00	54.1
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.21	0.00	-	0.00	0.00	-	0.00	0.00	27.5	0.00	0.00	27.6
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.01	0.14	0.19	0.00	-	0.00	0.00	-	0.00	0.00	23.1	0.00	0.00	23.2
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.03	0.02	0.00	-	0.00	0.00	-	0.00	0.00	3.3	0.00	0.00	3.3
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.02	0.26	0.00	-	0.00	0.00	-	0.00	0.00	34.0	0.00	0.00	34.1
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.00	0.02	0.28	0.00	-	0.00	0.00	-	0.00	0.00	36.4	0.00	0.00	36.5
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.01	0.05	0.51	0.00	-	0.00	0.00	-	0.00	0.00	94.0	0.00	0.00	94.4
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.01	0.05	0.51	0.00	-	0.00	0.00	-	0.00	0.00	94.0	0.00	0.00	94.4
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.01	0.04	0.52	0.00	-	0.00	0.00	-	0.00	0.00	68.0	0.00	0.00	68.2
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.21	0.00	-	0.00	0.00	-	0.00	0.00	27.5	0.00	0.00	27.6
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.08	0.10	0.00	-	0.00	0.00	-	0.00	0.00	13.5	0.00	0.00	13.5
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.01	0.06	0.04	0.00	-	0.00	0.00	-	0.00	0.00	7.7	0.00	0.00	7.8
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.02	0.16	0.11	0.00	-	0.01	0.01	-	0.01	0.01	19.7	0.00	0.00	19.8

Sepulveda Transit Corridor Project - ALTERNATIVE 3

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Emission Factor (g/bhp-hr)[3] ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.31	0.02	0.00
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.31	0.02	0.00
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.35	3.29	4.26	0.01	-	0.05	0.05	-	0.04	0.04	574.49	0.02	0.00
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.34	0.02	0.00
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.31	3.28	4.17	0.01	-	0.06	0.06	-	0.05	0.05	588.07	0.02	0.00
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.31	3.28	4.17	0.01	-	0.06	0.06	-	0.05	0.05	588.07	0.02	0.00
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.33	3.22	4.23	0.01	-	0.04	0.04	-	0.03	0.03	573.27	0.02	0.00
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.29	0.02	0.00
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.33	0.02	0.00
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.29	3.27	4.15	0.01	-	0.05	0.05	-	0.05	0.05	588.07	0.02	0.00
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.33	0.02	0.00
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.26	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.31	0.02	0.00
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.31	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.29	3.27	4.15	0.01	-	0.05	0.05	-	0.05	0.05	588.07	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.29	3.27	4.15	0.01	-	0.05	0.05	-	0.05	0.05	588.07	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.32	3.20	4.22	0.01	-	0.03	0.03	-	0.03	0.03	573.77	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.29	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Large Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	532.42	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.36	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Large Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Dozer-1ea	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	532.42	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.36	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Compactor	Plate Compactors	4	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.36	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Telescoping Fork	Rough Terrain Forklifts	4	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Conc Pump	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.32	3.17	4.22	0.01	-	0.03	0.03	-	0.03	0.03	573.94	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.36	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	532.42	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Compactor	Plate Compactors	2	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.36	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Asphalt Paver	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	525.85	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Asphalt roller	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.40	3.39	3.98	0.01	-	0.09	0.09	-	0.09	0.09	587.11	0.02	0.00
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.29	3.27	4.15	0.01	-	0.05	0.05	-	0.05	0.05	588.07	0.02	0.00
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.29	3.27	4.15	0.01	-	0.05	0.05	-	0.05	0.05	588.07	0.02	0.00
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.32	3.20	4.22	0.01	-	0.03	0.03	-	0.03	0.03	573.77	0.02	0.00
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.29	0.02	0.00
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 3

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Daily Emissions (lb/day)													
															ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.08	0.65	0.45	0.00	-	0.02	0.02	-	0.02	0.02	86.7	0.00	0.00
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.16	1.49	1.92	0.00	-	0.02	0.02	-	0.02	0.02	259.3	0.01	0.00
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.08	0.84	1.07	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.08	0.84	1.07	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.15	1.45	1.91	0.00	-	0.02	0.02	-	0.02	0.02	258.8	0.01	0.00
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.04	0.20	2.88	0.00	-	0.01	0.01	-	0.01	0.01	407.0	0.02	0.00
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.08	0.65	0.45	0.00	-	0.03	0.03	-	0.02	0.02	86.7	0.00	0.00
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.08	0.65	0.45	0.00	-	0.02	0.02	-	0.02	0.02	86.7	0.00	0.00
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.15	1.44	1.91	0.00	-	0.01	0.01	-	0.01	0.01	259.0	0.01	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Large Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.14	0.72	7.15	0.01	-	0.03	0.03	-	0.03	0.03	1464.7	0.06	0.01
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Large Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Dozer-1ea	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.14	0.72	7.15	0.01	-	0.03	0.03	-	0.03	0.03	1464.7	0.06	0.01
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Compactor	Plate Compactors	4	8.5	8	0.43	Diesel	Fleet Avg	0.14	1.07	0.89	0.00	-	0.04	0.04	-	0.04	0.04	146.6	0.01	0.00
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Telescoping Fork	Rough Terrain Forklifts	4	8.5	96	0.4	Diesel	Tier 4 Final	0.14	0.75	10.65	0.01	-	0.03	0.03	-	0.03	0.03	1521.9	0.06	0.01
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Conc Pump	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.17	1.29	0.91	0.00	-	0.05	0.05	-	0.05	0.05	173.4	0.01	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.14	1.43	1.91	0.00	-	0.01	0.01	-	0.01	0.01	259.1	0.01	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.06	0.30	4.31	0.01	-	0.01	0.01	-	0.01	0.01	616.5	0.03	0.01
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.14	0.72	7.15	0.01	-	0.03	0.03	-	0.03	0.03	1464.7	0.06	0.01
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Compactor	Plate Compactors	2	8.5	8	0.43	Diesel	Fleet Avg	0.07	0.53	0.45	0.00	-	0.02	0.02	-	0.02	0.02	73.3	0.00	0.00
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Asphalt Paver	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.03	0.17	2.36	0.00	-	0.01	0.01	-	0.01	0.01	335.2	0.01	0.00
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Asphalt roller	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.20	1.74	2.04	0.00	-	0.05	0.05	-	0.04	0.04	301.0	0.01	0.00
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.15	1.44	1.91	0.00	-	0.01	0.01	-	0.01	0.01	259.0	0.01	0.00
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 3

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Total Emissions (tons)										Total Emissions (metric tons)			
															ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.01	0.03	0.33	0.00	-	0.00	0.00	-	0.00	0.00	61.6	0.00	0.00	61.8
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.01	0.03	0.33	0.00	-	0.00	0.00	-	0.00	0.00	61.6	0.00	0.00	61.8
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.02	0.34	0.00	-	0.00	0.00	-	0.00	0.00	44.5	0.00	0.00	44.7
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.14	0.00	-	0.00	0.00	-	0.00	0.00	18.0	0.00	0.00	18.1
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.05	0.07	0.00	-	0.00	0.00	-	0.00	0.00	8.8	0.00	0.00	8.9
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.01	0.04	0.03	0.00	-	0.00	0.00	-	0.00	0.00	5.1	0.00	0.00	5.1
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.01	0.11	0.07	0.00	-	0.00	0.00	-	0.00	0.00	12.9	0.00	0.00	13.0
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.02	0.08	0.85	0.00	-	0.00	0.00	-	0.00	0.00	155.6	0.01	0.00	156.1
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.01	0.06	0.87	0.00	-	0.00	0.00	-	0.00	0.00	112.5	0.00	0.00	112.9
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.03	0.27	0.18	0.00	-	0.01	0.01	-	0.01	0.01	32.6	0.00	0.00	32.7
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.03	0.28	0.35	0.00	-	0.01	0.01	-	0.01	0.01	44.5	0.00	0.00	44.7
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.03	0.28	0.35	0.00	-	0.01	0.01	-	0.01	0.01	44.5	0.00	0.00	44.7
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.02	0.10	1.37	0.00	-	0.00	0.00	-	0.00	0.00	178.3	0.01	0.00	178.9
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.01	0.05	0.70	0.00	-	0.00	0.00	-	0.00	0.00	91.0	0.00	0.00	91.3
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.05	0.48	0.63	0.00	-	0.01	0.01	-	0.01	0.01	76.6	0.00	0.00	76.8
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.01	0.09	0.07	0.00	-	0.00	0.00	-	0.00	0.00	10.8	0.00	0.00	10.9
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.01	0.06	0.87	0.00	-	0.00	0.00	-	0.00	0.00	112.3	0.00	0.00	112.7
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.08	0.11	0.00	-	0.00	0.00	-	0.00	0.00	13.5	0.00	0.00	13.5
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.08	0.11	0.00	-	0.00	0.00	-	0.00	0.00	13.5	0.00	0.00	13.5
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.01	0.03	0.41	0.00	-	0.00	0.00	-	0.00	0.00	54.0	0.00	0.00	54.1
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.21	0.00	-	0.00	0.00	-	0.00	0.00	27.5	0.00	0.00	27.6
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.01	0.14	0.19	0.00	-	0.00	0.00	-	0.00	0.00	23.1	0.00	0.00	23.2
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.03	0.02	0.00	-	0.00	0.00	-	0.00	0.00	3.3	0.00	0.00	3.3
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.02	0.26	0.00	-	0.00	0.00	-	0.00	0.00	34.0	0.00	0.00	34.1
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Oscillating Drill Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.00	0.02	0.34	0.00	-	0.00	0.00	-	0.00	0.00	43.9	0.00	0.00	44.1
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.01	0.06	0.62	0.00	-	0.00	0.00	-	0.00	0.00	113.6	0.00	0.00	114.0
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.01	0.06	0.62	0.00	-	0.00	0.00	-	0.00	0.00	113.6	0.00	0.00	114.0
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.01	0.04	0.63	0.00	-	0.00	0.00	-	0.00	0.00	82.1	0.00	0.00	82.4
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.02	0.26	0.00	-	0.00	0.00	-	0.00	0.00	33.3	0.00	0.00	33.4
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.10	0.13	0.00	-	0.00	0.00	-	0.00	0.00	16.3	0.00	0.00	16.3
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.01	0.08	0.05	0.00	-	0.00	0.00	-	0.00	0.00	9.4	0.00	0.00	9.4
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.02	0.20	0.13	0.00	-	0.01	0.01	-	0.01	0.01	23.8	0.00	0.00	23.9
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Crawler Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.00	0.02	0.17	0.00	-	0.00	0.00	-	0.00	0.00	31.5	0.00	0.00	31.6
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.00	0.02	0.17	0.00	-	0.00	0.00	-	0.00	0.00	31.5	0.00	0.00	31.6
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.01	0.18	0.00	-	0.00	0.00	-	0.00	0.00	22.8	0.00	0.00	22.9
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.00	0.07	0.00	-	0.00	0.00	-	0.00	0.00	9.2	0.00	0.00	9.3
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Med. Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.03	0.03	0.00	-	0.00	0.00	-	0.00	0.00	4.5	0.00	0.00	4.5
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.00	0.02	0.01	0.00	-	0.00	0.00	-	0.00	0.00	2.6	0.00	0.00	2.6
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.01	0.05	0.04	0.00	-	0.00	0.00	-	0.00	0.00	6.6	0.00	0.00	6.6
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.02	0.12	1.24	0.00	-	0.00	0.00	-	0.00	0.00	228.2	0.01	0.00	228.9
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.02	0.09	1.27	0.00	-	0.00	0.00	-	0.00	0.00	165.0	0.01	0.00	165.5
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Generator	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.05	0.39	0.26	0.00	-	0.02	0.02	-	0.01	0.01	47.8	0.00	0.00	48.0
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.07	0.09	0.00	-	0.00	0.00	-	0.00	0.00	12.0	0.00	0.00	12.0
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.07	0.09	0.00	-	0.00	0.00	-	0.00	0.00	12.0	0.00	0.00	12.0
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.00	0.03	0.37	0.00	-	0.00	0.00	-	0.00	0.00	47.9	0.00	0.00	48.1
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.19	0.00	-	0.00	0.00	-	0.00	0.00	24.5	0.00	0.00	24.6
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.01	0.13	0.17	0.00	-	0.00	0.00	-	0.00	0.00	20.6	0.00	0.00	20.6
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.02	0.02	0.00	-	0.00	0.00	-	0.00	0.00	2.9	0.00	0.00	2.9
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.02	0.23	0.00	-	0.00	0.00	-	0.00	0.00	30.2	0.00	0.00	30.3
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Large Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.03	0.03	0.00	-	0.00	0.00	-	0.00	0.00	4.4	0.00	0.00	4.4
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.00	0.07	0.00	-	0.00	0.00	-	0.00	0.00	8.9	0.00	0.00	9.0
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.00	0.02	0.23	0.00	-	0.00	0.00	-	0.00	0.00	42.5	0.00	0.00	42.7
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.01	0.01	0.00	-	0.00	0.00	-	0.00	0.00	1.1	0.00	0.00	1.1
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Large Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.02	0.02	0.00	-	0.00	0.00	-	0.00	0.00	2.9	0.00	0.00	3.0
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.00	0.01	0.09	0.00	-	0.00	0.00	-	0.00	0.00	11.8	0.00	0.00	11.8
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.00	0.05	0.00	-	0.00	0.00	-	0.00	0.00	6.0	0.00	0.00	6.0
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Dozer-1ea	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.00	0.02	0.15	0.00	-	0.00	0.00	-	0.00	0.00	28.6	0.00	0.00	28.7
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.01	0.00	0.00	-	0.00	0.00	-	0.00	0.00	0.7	0.00	0.00	0.7
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Compactor	Plate Compactors	4	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.02	0.02	0.00	-	0.00	0.00	-	0.00	0.00	2.9	0.00	0.00	2.9
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Telescoping Fork	Rough Terrain Forklifts	4	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.02	0.23	0.00	-	0.00	0.00	-	0.00	0.00	29.7	0.00	0.00	29.8
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Conc Pump	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.00	0.03	0.02	0.00	-	0.00	0.00	-	0.00	0.00	3.4	0.00	0.00	3.4
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.01	0.01	0.00	-	0.00	0.00	-	0.00	0.00	1.6	0.00	0.00	1.6
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.01	0.01	0.00	-	0.00	0.00	-	0.00	0.00	1.6	0.00	0.00	1.6
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.00	0.00	0.05	0.00	-	0.00	0.00	-	0.00	0.00	6.3	0.00	0.00	6.3
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.00	0.02	0.00	-	0.00	0.00	-	0.00	0.00	3.2	0.00	0.00	3.2
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.00	0.02	0.02	0.00	-	0.00	0.00	-	0.00	0.00	2.7	0.00	0.00	2.7
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.00	0.00	0.00	-	0.00	0.00	-	0.00	0.00	0.4	0.00	0.00	0.4
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.00	0.03	0.00	-	0.00	0.00	-	0.00	0.00	4.0	0.00	0.00	4.0
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.00	0.00	0.05	0.00	-	0.00	0.00	-	0.00	0.00	6.0	0.00	0.00	6.0
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.00	0.05	0.00	-	0.00	0.00	-	0.00	0.00	6.2	0.00	0.00	6.2
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.00	0.01	0.08	0.00	-	0.00	0.00	-	0.00	0.00	14.6	0.00	0.00	14.7
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Compactor	Plate Compactors	2	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.01	0.00	0.00	-	0.00	0.00	-	0.00	0.00	0.7	0.00	0.00	0.7
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Asphalt Paver	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.00	0.00	0.03	0.00	-	0.00	0.00	-	0.00	0.00	3.3	0.00	0.00	3.4
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Asphalt roller	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.02	0.02	0.00	-	0.00	0.00	-	0.00	0.00	3.0	0.00	0.00	3.0
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.07	0.09	0.00	-	0.00	0.00	-	0.00	0.00	12.0	0.00	0.00	12.0
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.07	0.09	0.00	-	0.00	0.00	-	0.00	0.00	12.0	0.00	0.00	12.0
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.00	0.03	0.37	0.00	-	0.00	0.00	-	0.00	0.00	47.9	0.00	0.00	48.1
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.19	0.00	-	0.00	0.00	-	0.00	0.00	24.5	0.00	0.00	24.6
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.01	0.13	0.17	0.00	-	0.00	0.00	-	0.00	0.00	20.6	0.00	0.00	20.6
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.02	0.02	0.00	-	0.00	0.00	-	0.00	0.00	2.9	0.00	0.00	2.9
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.02	0.23	0.00	-	0.00	0.00	-	0.00	0.00	30.2	0.00	0.00	30.3

Sepulveda Transit Corridor Project - ALTERNATIVE 3

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Emission Factor (g/bhp-hr)[3] ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Large Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	532.42	0.02	0.00
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.36	0.02	0.00
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Large Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Dozer-1ea	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	532.42	0.02	0.00
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.36	0.02	0.00
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Compactor	Plate Compactors	4	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.36	0.02	0.00
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Telescoping Fork	Rough Terrain Forklifts	4	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Conc Pump	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.32	3.17	4.22	0.01	-	0.03	0.03	-	0.03	0.03	573.94	0.02	0.00
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.36	0.02	0.00
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	532.42	0.02	0.00
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Compactor	Plate Compactors	2	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.36	0.02	0.00
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Asphalt Paver	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	525.85	0.02	0.00
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Asphalt roller	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.40	3.39	3.98	0.01	-	0.09	0.09	-	0.09	0.09	587.11	0.02	0.00
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.29	3.27	4.15	0.01	-	0.05	0.05	-	0.05	0.05	588.07	0.02	0.00
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.29	3.27	4.15	0.01	-	0.05	0.05	-	0.05	0.05	588.07	0.02	0.00
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.32	3.20	4.22	0.01	-	0.03	0.03	-	0.03	0.03	573.77	0.02	0.00
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.29	0.02	0.00
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Large Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	532.42	0.02	0.00
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.36	0.02	0.00
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Large Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Dozer-1ea	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	532.42	0.02	0.00
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.36	0.02	0.00
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Compactor	Plate Compactors	4	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.36	0.02	0.00
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Telescoping Fork	Rough Terrain Forklifts	4	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Conc Pump	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.32	3.17	4.22	0.01	-	0.03	0.03	-	0.03	0.03	573.94	0.02	0.00
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.36	0.02	0.00
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	532.42	0.02	0.00
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Compactor	Plate Compactors	2	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.36	0.02	0.00
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Asphalt Paver	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	525.85	0.02	0.00
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Asphalt roller	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.40	3.39	3.98	0.01	-	0.09	0.09	-	0.09	0.09	587.11	0.02	0.00
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.31	3.28	4.17	0.01	-	0.06	0.06	-	0.05	0.05	588.07	0.02	0.00
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.31	3.28	4.17	0.01	-	0.06	0.06	-	0.05	0.05	588.07	0.02	0.00
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.33	3.22	4.23	0.01	-	0.04	0.04	-	0.03	0.03	573.27	0.02	0.00
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.29	0.02	0.00
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.32	3.17	4.22	0.01	-	0.03	0.03	-	0.03	0.03	573.94	0.02	0.00
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.36	0.02	0.00
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Large Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	532.42	0.02	0.00
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	623 Scraper	Scrapers	2	8.5	423	0.48	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	528.52	0.02	0.00
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Compactor	Plate Compactors	2	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.36	0.02	0.00
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	RTG Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Manlift	Aerial Lifts	2	8.5	46	0.31	Diesel	Fleet Avg	0.14	2.85	3.06	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 3

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Daily Emissions (lb/day)												
															ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Large Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.14	0.72	7.15	0.01	-	0.03	0.03	-	0.03	0.03	1464.7	0.06	0.01
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Large Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Dozer-1ea	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.14	0.72	7.15	0.01	-	0.03	0.03	-	0.03	0.03	1464.7	0.06	0.01
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Compactor	Plate Compactors	4	8.5	8	0.43	Diesel	Fleet Avg	0.14	1.07	0.89	0.00	-	0.04	0.04	-	0.04	0.04	146.6	0.01	0.00
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Telescoping Fork	Rough Terrain Forklifts	4	8.5	96	0.4	Diesel	Tier 4 Final	0.14	0.75	10.65	0.01	-	0.03	0.03	-	0.03	0.03	1521.9	0.06	0.01
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Conc Pump	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.17	1.29	0.91	0.00	-	0.05	0.05	-	0.05	0.05	173.4	0.01	0.00
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.14	1.43	1.91	0.00	-	0.01	0.01	-	0.01	0.01	259.1	0.01	0.00
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.06	0.30	4.31	0.01	-	0.01	0.01	-	0.01	0.01	616.5	0.03	0.01
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.14	0.72	7.15	0.01	-	0.03	0.03	-	0.03	0.03	1464.7	0.06	0.01
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Compactor	Plate Compactors	2	8.5	8	0.43	Diesel	Fleet Avg	0.07	0.53	0.45	0.00	-	0.02	0.02	-	0.02	0.02	73.3	0.00	0.00
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Asphalt Paver	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.03	0.17	2.36	0.00	-	0.01	0.01	-	0.01	0.01	335.2	0.01	0.00
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Asphalt roller	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.20	1.74	2.04	0.00	-	0.05	0.05	-	0.04	0.04	301.0	0.01	0.00
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.15	1.44	1.91	0.00	-	0.01	0.01	-	0.01	0.01	259.0	0.01	0.00
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Large Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.14	0.72	7.15	0.01	-	0.03	0.03	-	0.03	0.03	1464.7	0.06	0.01
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Large Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Dozer-1ea	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.14	0.72	7.15	0.01	-	0.03	0.03	-	0.03	0.03	1464.7	0.06	0.01
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Compactor	Plate Compactors	4	8.5	8	0.43	Diesel	Fleet Avg	0.14	1.07	0.89	0.00	-	0.04	0.04	-	0.04	0.04	146.6	0.01	0.00
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Telescoping Fork	Rough Terrain Forklifts	4	8.5	96	0.4	Diesel	Tier 4 Final	0.14	0.75	10.65	0.01	-	0.03	0.03	-	0.03	0.03	1521.9	0.06	0.01
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Conc Pump	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.17	1.29	0.91	0.00	-	0.05	0.05	-	0.05	0.05	173.4	0.01	0.00
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.14	1.43	1.91	0.00	-	0.01	0.01	-	0.01	0.01	259.1	0.01	0.00
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.06	0.30	4.31	0.01	-	0.01	0.01	-	0.01	0.01	616.5	0.03	0.01
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.14	0.72	7.15	0.01	-	0.03	0.03	-	0.03	0.03	1464.7	0.06	0.01
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Compactor	Plate Compactors	2	8.5	8	0.43	Diesel	Fleet Avg	0.07	0.53	0.45	0.00	-	0.02	0.02	-	0.02	0.02	73.3	0.00	0.00
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Asphalt Paver	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.03	0.17	2.36	0.00	-	0.01	0.01	-	0.01	0.01	335.2	0.01	0.00
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Asphalt roller	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.20	1.74	2.04	0.00	-	0.05	0.05	-	0.04	0.04	301.0	0.01	0.00
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.08	0.84	1.07	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.08	0.84	1.07	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.15	1.45	1.91	0.00	-	0.02	0.02	-	0.02	0.02	258.8	0.01	0.00
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.14	1.43	1.91	0.00	-	0.01	0.01	-	0.01	0.01	259.1	0.01	0.00
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Large Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.06	0.30	4.31	0.01	-	0.01	0.01	-	0.01	0.01	616.5	0.03	0.01
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.14	0.72	7.15	0.01	-	0.03	0.03	-	0.03	0.03	1464.7	0.06	0.01
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	623 Scraper	Scrapers	2	8.5	423	0.48	Diesel	Tier 4 Final	0.38	1.98	19.79	0.04	-	0.08	0.08	-	0.08	0.08	4021.9	0.16	0.03
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Compactor	Plate Compactors	2	8.5	8	0.43	Diesel	Fleet Avg	0.07	0.53	0.45	0.00	-	0.02	0.02	-	0.02	0.02	73.3	0.00	0.00
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	RTG Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.08	0.65	0.45	0.00	-	0.02	0.02	-	0.02	0.02	86.7	0.00	0.00
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Manlift	Aerial Lifts	2	8.5	46	0.31	Diesel	Fleet Avg	0.08	1.52	1.64	0.00	-	0.01	0.01	-	0.01	0.01	313.7	0.01	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 3

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Total Emissions (tons) ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	Total Emissions (metric tons) CO_2	CH_4	N_2O	CO_2e
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Large Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.03	0.03	0.00	-	0.00	0.00	-	0.00	0.00	4.4	0.00	0.00	4.4
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.00	0.07	0.00	-	0.00	0.00	-	0.00	0.00	8.9	0.00	0.00	9.0
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.00	0.02	0.23	0.00	-	0.00	0.00	-	0.00	0.00	42.5	0.00	0.00	42.7
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.01	0.01	0.00	-	0.00	0.00	-	0.00	0.00	1.1	0.00	0.00	1.1
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Large Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.02	0.02	0.00	-	0.00	0.00	-	0.00	0.00	2.9	0.00	0.00	3.0
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.00	0.01	0.09	0.00	-	0.00	0.00	-	0.00	0.00	11.8	0.00	0.00	11.8
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.00	0.05	0.00	-	0.00	0.00	-	0.00	0.00	6.0	0.00	0.00	6.0
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Dozer-1ea	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.00	0.02	0.15	0.00	-	0.00	0.00	-	0.00	0.00	28.6	0.00	0.00	28.7
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.01	0.00	0.00	-	0.00	0.00	-	0.00	0.00	0.7	0.00	0.00	0.7
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Compactor	Plate Compactors	4	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.02	0.02	0.00	-	0.00	0.00	-	0.00	0.00	2.9	0.00	0.00	2.9
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Telescoping Fork	Rough Terrain Forklifts	4	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.02	0.23	0.00	-	0.00	0.00	-	0.00	0.00	29.7	0.00	0.00	29.8
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Conc Pump	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.00	0.03	0.02	0.00	-	0.00	0.00	-	0.00	0.00	3.4	0.00	0.00	3.4
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.01	0.01	0.00	-	0.00	0.00	-	0.00	0.00	1.6	0.00	0.00	1.6
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.01	0.01	0.00	-	0.00	0.00	-	0.00	0.00	1.6	0.00	0.00	1.6
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.00	0.00	0.05	0.00	-	0.00	0.00	-	0.00	0.00	6.3	0.00	0.00	6.3
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.00	0.02	0.00	-	0.00	0.00	-	0.00	0.00	3.2	0.00	0.00	3.2
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.00	0.02	0.02	0.00	-	0.00	0.00	-	0.00	0.00	2.7	0.00	0.00	2.7
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.00	0.00	0.00	-	0.00	0.00	-	0.00	0.00	0.4	0.00	0.00	0.4
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.00	0.03	0.00	-	0.00	0.00	-	0.00	0.00	4.0	0.00	0.00	4.0
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.00	0.00	0.05	0.00	-	0.00	0.00	-	0.00	0.00	6.0	0.00	0.00	6.0
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.00	0.05	0.00	-	0.00	0.00	-	0.00	0.00	6.2	0.00	0.00	6.2
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.00	0.01	0.08	0.00	-	0.00	0.00	-	0.00	0.00	14.6	0.00	0.00	14.7
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Compactor	Plate Compactors	2	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.01	0.00	0.00	-	0.00	0.00	-	0.00	0.00	0.7	0.00	0.00	0.7
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Asphalt Paver	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.00	0.00	0.03	0.00	-	0.00	0.00	-	0.00	0.00	3.3	0.00	0.00	3.4
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Asphalt roller	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.02	0.02	0.00	-	0.00	0.00	-	0.00	0.00	3.0	0.00	0.00	3.0
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.07	0.09	0.00	-	0.00	0.00	-	0.00	0.00	12.0	0.00	0.00	12.0
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.07	0.09	0.00	-	0.00	0.00	-	0.00	0.00	12.0	0.00	0.00	12.0
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.00	0.03	0.37	0.00	-	0.00	0.00	-	0.00	0.00	47.9	0.00	0.00	48.1
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.19	0.00	-	0.00	0.00	-	0.00	0.00	24.5	0.00	0.00	24.6
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.01	0.13	0.17	0.00	-	0.00	0.00	-	0.00	0.00	20.6	0.00	0.00	20.6
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.02	0.02	0.00	-	0.00	0.00	-	0.00	0.00	2.9	0.00	0.00	2.9
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.02	0.23	0.00	-	0.00	0.00	-	0.00	0.00	30.2	0.00	0.00	30.3
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Large Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.03	0.03	0.00	-	0.00	0.00	-	0.00	0.00	4.4	0.00	0.00	4.4
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.00	0.07	0.00	-	0.00	0.00	-	0.00	0.00	8.9	0.00	0.00	9.0
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.00	0.02	0.23	0.00	-	0.00	0.00	-	0.00	0.00	42.5	0.00	0.00	42.7
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.01	0.01	0.00	-	0.00	0.00	-	0.00	0.00	1.1	0.00	0.00	1.1
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Large Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.02	0.02	0.00	-	0.00	0.00	-	0.00	0.00	2.9	0.00	0.00	3.0
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.00	0.01	0.09	0.00	-	0.00	0.00	-	0.00	0.00	11.8	0.00	0.00	11.8
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.00	0.05	0.00	-	0.00	0.00	-	0.00	0.00	6.0	0.00	0.00	6.0
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Dozer-1ea	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.00	0.02	0.15	0.00	-	0.00	0.00	-	0.00	0.00	28.6	0.00	0.00	28.7
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.01	0.00	0.00	-	0.00	0.00	-	0.00	0.00	0.7	0.00	0.00	0.7
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Compactor	Plate Compactors	4	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.02	0.02	0.00	-	0.00	0.00	-	0.00	0.00	2.9	0.00	0.00	2.9
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Telescoping Fork	Rough Terrain Forklifts	4	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.02	0.23	0.00	-	0.00	0.00	-	0.00	0.00	29.7	0.00	0.00	29.8
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Conc Pump	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.00	0.03	0.02	0.00	-	0.00	0.00	-	0.00	0.00	3.4	0.00	0.00	3.4
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.01	0.01	0.00	-	0.00	0.00	-	0.00	0.00	1.6	0.00	0.00	1.6
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.01	0.01	0.00	-	0.00	0.00	-	0.00	0.00	1.6	0.00	0.00	1.6
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.00	0.00	0.05	0.00	-	0.00	0.00	-	0.00	0.00	6.3	0.00	0.00	6.3
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.00	0.02	0.00	-	0.00	0.00	-	0.00	0.00	3.2	0.00	0.00	3.2
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.00	0.02	0.02	0.00	-	0.00	0.00	-	0.00	0.00	2.7	0.00	0.00	2.7
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.00	0.00	0.00	-	0.00	0.00	-	0.00	0.00	0.4	0.00	0.00	0.4
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.00	0.03	0.00	-	0.00	0.00	-	0.00	0.00	4.0	0.00	0.00	4.0
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.00	0.00	0.05	0.00	-	0.00	0.00	-	0.00	0.00	6.0	0.00	0.00	6.0
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.00	0.05	0.00	-	0.00	0.00	-	0.00	0.00	6.2	0.00	0.00	6.2
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.00	0.01	0.08	0.00	-	0.00	0.00	-	0.00	0.00	14.6	0.00	0.00	14.7
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Compactor	Plate Compactors	2	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.01	0.00	0.00	-	0.00	0.00	-	0.00	0.00	0.7	0.00	0.00	0.7
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Asphalt Paver	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.00	0.00	0.03	0.00	-	0.00	0.00	-	0.00	0.00	3.3	0.00	0.00	3.4
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Asphalt roller	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.02	0.02	0.00	-	0.00	0.00	-	0.00	0.00	3.0	0.00	0.00	3.0
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.02	0.17	0.21	0.00	-	0.00	0.00	-	0.00	0.00	26.9	0.00	0.00	27.0
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.02	0.17	0.21	0.00	-	0.00	0.00	-	0.00	0.00	26.9	0.00	0.00	27.0
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.01	0.06	0.83	0.00	-	0.00	0.00	-	0.00	0.00	107.9	0.00	0.00	108.3
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.01	0.03	0.42	0.00	-	0.00	0.00	-	0.00	0.00	55.1	0.00	0.00	55.3
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.03	0.29	0.38	0.00	-	0.00	0.00	-	0.00	0.00	46.2	0.00	0.00	46.4
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.01	0.05	0.04	0.00	-	0.00	0.00	-	0.00	0.00	6.5	0.00	0.00	6.6
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.01	0.04	0.52	0.00	-	0.00	0.00	-	0.00	0.00	68.0	0.00	0.00	68.2
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.03	0.03	0.00	-	0.00	0.00	-	0.00	0.00	4.4	0.00	0.00	4.4
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.03	0.03	0.00	-	0.00	0.00	-	0.00	0.00	4.4	0.00	0.00	4.4
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.00	0.01	0.13	0.00	-	0.00	0.00	-	0.00	0.00	17.5	0.00	0.00	17.6
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.00	0.07	0.00	-	0.00	0.00	-	0.00	0.00	8.9	0.00	0.00	9.0
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.00	0.05	0.06	0.00	-	0.00	0.00	-	0.00	0.00	7.5	0.00	0.00	7.5
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.01	0.01	0.00	-	0.00	0.00	-	0.00	0.00	1.1	0.00	0.00	1.1
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.01	0.09	0.00	-	0.00	0.00	-	0.00	0.00	11.0	0.00	0.00	11.1
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Large Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.03	0.03	0.00	-	0.00	0.00	-	0.00	0.00	4.4	0.00	0.00	4.5
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.03	0.03	0.00	-	0.00	0.00	-	0.00	0.00	4.4	0.00	0.00	4.5
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.00	0.01	0.14	0.00	-	0.00	0.00	-	0.00	0.00	17.8	0.00	0.00	17.9
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.14	0.00	-	0.00	0.00	-	0.00	0.00	18.2	0.00	0.00	18.2
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.00	0.02	0.23	0.00	-	0.00	0.00	-	0.00	0.00	43.2	0.00	0.00	43.3
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	623 Scraper	Scrapers	2	8.5	423	0.48	Diesel	Tier 4 Final	0.01	0.06	0.64	0.00	-	0.00	0.00	-	0.00	0.00	118.6	0.00	0.00	119.0
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Compactor	Plate Compactors	2	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.02	0.01	0.00	-	0.00	0.00	-	0.00	0.00	2.2	0.00	0.00	2.2
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	RTG Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.00	0.01	0.11	0.00	-	0.00	0.00	-	0.00	0.00	21.0	0.00	0.00	21.1
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Hydraulic Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.00	0.01	0.11	0.00	-	0.00	0.00	-	0.00	0.00	21.0	0.00	0.00	21.1
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Telescoping Fork	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.01	0.12	0.00	-	0.00	0.00	-	0.00	0.00	15.2	0.00	0.00	15.2
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.00	0.05	0.00	-	0.00	0.00	-	0.00	0.00	6.2	0.00	0.00	6.2
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Concrete Pump	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.00	0.01	0.01	0.00	-	0.00	0.00	-	0.00	0.00	1.7	0.00	0.00	1.7
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Manlift	Aerial Lifts	2	8.5	46	0.31	Diesel	Fleet Avg	0.00	0.03	0.04	0.00	-	0.00	0.00	-	0.00	0.00	6.3	0.00	0.00	6.3

Sepulveda Transit Corridor Project - ALTERNATIVE 3

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Emission Factor (g/bhp-hr)[3] ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.32	3.17	4.22	0.01	-	0.03	0.03	-	0.03	0.03	573.94	0.02	0.00
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.36	0.02	0.00
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	532.42	0.02	0.00
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Compactor	Plate Compactors	2	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.35	0.02	0.00
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Asphalt Paver	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	525.86	0.02	0.00
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Asphalt roller	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.37	3.36	3.94	0.01	-	0.09	0.09	-	0.08	0.08	587.11	0.02	0.00
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.35	3.29	4.26	0.01	-	0.05	0.05	-	0.04	0.04	574.49	0.02	0.00
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.34	0.02	0.00
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Asphalt Paver	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	525.84	0.02	0.00
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Asphalt Roller	Rollers	1	8.5	36	0.38	Diesel	Fleet Avg	0.49	3.48	4.09	0.01	-	0.13	0.13	-	0.12	0.12	587.11	0.02	0.00
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Jack and Bore Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.33	0.02	0.00
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.35	3.29	4.26	0.01	-	0.05	0.05	-	0.04	0.04	574.49	0.02	0.00
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.34	0.02	0.00
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Asphalt Paver	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	525.84	0.02	0.00
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Asphalt Roller	Rollers	1	8.5	36	0.38	Diesel	Fleet Avg	0.49	3.48	4.09	0.01	-	0.13	0.13	-	0.12	0.12	587.11	0.02	0.00
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Jack and Bore Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.33	0.02	0.00
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.35	3.29	4.26	0.01	-	0.05	0.05	-	0.04	0.04	574.49	0.02	0.00
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.34	0.02	0.00
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Asphalt Paver	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	525.84	0.02	0.00
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Asphalt Roller	Rollers	1	8.5	36	0.38	Diesel	Fleet Avg	0.49	3.48	4.09	0.01	-	0.13	0.13	-	0.12	0.12	587.11	0.02	0.00
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Jack and Bore Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.33	0.02	0.00
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.35	3.29	4.26	0.01	-	0.05	0.05	-	0.04	0.04	574.49	0.02	0.00
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.34	0.02	0.00
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Asphalt Paver	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	525.84	0.02	0.00
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Asphalt Roller	Rollers	1	8.5	36	0.38	Diesel	Fleet Avg	0.49	3.48	4.09	0.01	-	0.13	0.13	-	0.12	0.12	587.11	0.02	0.00
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Jack and Bore Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.33	0.02	0.00
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.35	3.29	4.26	0.01	-	0.05	0.05	-	0.04	0.04	574.49	0.02	0.00
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.34	0.02	0.00
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Large Excavator	Excavators	4	8.5	36	0.38	Diesel	Fleet Avg	0.33	3.30	4.19	0.01	-	0.07	0.07	-	0.06	0.06	588.07	0.02	0.00
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Wheel Loader	Tractors/Loaders/Backhoes	4	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Dozer	Rubber Tired Dozers	4	8.5	367	0.4	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	532.38	0.02	0.00
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Compactor	Plate Compactors	4	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.37	0.02	0.00
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Large Excavator	Excavators	4	8.5	36	0.38	Diesel	Fleet Avg	0.31	3.28	4.17	0.01	-	0.06	0.06	-	0.05	0.05	588.07	0.02	0.00
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Motor Grader	Graders	4	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Wheel Loader	Tractors/Loaders/Backhoes	4	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Dozer-1ea	Rubber Tired Dozers	8	8.5	367	0.4	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	532.38	0.02	0.00
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	623 Scraper	Scrapers	4	8.5	423	0.48	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	528.52	0.02	0.00
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Compactor	Plate Compactors	4	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.29	0.02	0.00
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Compactor	Plate Compactors	4	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.29	0.02	0.00
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Telescoping Fork	Rough Terrain Forklifts	4	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Slip Form Paver	Pavers	2	8.5	81	0.42	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	525.85	0.02	0.00
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.35	3.29	4.26	0.01	-	0.05	0.05	-	0.04	0.04	574.49	0.02	0.00
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.34	0.02	0.00
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 3

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Daily Emissions (lb/day) ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.07	0.84	1.06	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.14	1.43	1.91	0.00	-	0.01	0.01	-	0.01	0.01	259.1	0.01	0.00
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.14	0.72	7.15	0.01	-	0.03	0.03	-	0.03	0.03	1464.7	0.06	0.01
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Compactor	Plate Compactors	2	8.5	8	0.43	Diesel	Fleet Avg	0.07	0.53	0.45	0.00	-	0.02	0.02	-	0.02	0.02	73.3	0.00	0.00
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Asphalt Paver	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.03	0.17	2.36	0.00	-	0.01	0.01	-	0.01	0.01	335.2	0.01	0.00
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Asphalt roller	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.19	1.72	2.02	0.00	-	0.04	0.04	-	0.04	0.04	301.0	0.01	0.00
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.16	1.49	1.92	0.00	-	0.02	0.02	-	0.02	0.02	259.3	0.01	0.00
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Asphalt Paver	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.03	0.17	2.36	0.00	-	0.01	0.01	-	0.01	0.01	335.2	0.01	0.00
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Asphalt Roller	Rollers	1	8.5	36	0.38	Diesel	Fleet Avg	0.13	0.89	1.05	0.00	-	0.03	0.03	-	0.03	0.03	150.5	0.01	0.00
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Jack and Bore Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.04	0.20	2.88	0.00	-	0.01	0.01	-	0.01	0.01	407.0	0.02	0.00
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.16	1.49	1.92	0.00	-	0.02	0.02	-	0.02	0.02	259.3	0.01	0.00
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Asphalt Paver	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.03	0.17	2.36	0.00	-	0.01	0.01	-	0.01	0.01	335.2	0.01	0.00
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Asphalt Roller	Rollers	1	8.5	36	0.38	Diesel	Fleet Avg	0.13	0.89	1.05	0.00	-	0.03	0.03	-	0.03	0.03	150.5	0.01	0.00
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Jack and Bore Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.04	0.20	2.88	0.00	-	0.01	0.01	-	0.01	0.01	407.0	0.02	0.00
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.16	1.49	1.92	0.00	-	0.02	0.02	-	0.02	0.02	259.3	0.01	0.00
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Asphalt Paver	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.03	0.17	2.36	0.00	-	0.01	0.01	-	0.01	0.01	335.2	0.01	0.00
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Asphalt Roller	Rollers	1	8.5	36	0.38	Diesel	Fleet Avg	0.13	0.89	1.05	0.00	-	0.03	0.03	-	0.03	0.03	150.5	0.01	0.00
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Jack and Bore Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.04	0.20	2.88	0.00	-	0.01	0.01	-	0.01	0.01	407.0	0.02	0.00
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.16	1.49	1.92	0.00	-	0.02	0.02	-	0.02	0.02	259.3	0.01	0.00
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Asphalt Paver	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.03	0.17	2.36	0.00	-	0.01	0.01	-	0.01	0.01	335.2	0.01	0.00
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Asphalt Roller	Rollers	1	8.5	36	0.38	Diesel	Fleet Avg	0.13	0.89	1.05	0.00	-	0.03	0.03	-	0.03	0.03	150.5	0.01	0.00
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Jack and Bore Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.04	0.20	2.88	0.00	-	0.01	0.01	-	0.01	0.01	407.0	0.02	0.00
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.16	1.49	1.92	0.00	-	0.02	0.02	-	0.02	0.02	259.3	0.01	0.00
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Large Excavator	Excavators	4	8.5	36	0.38	Diesel	Fleet Avg	0.34	3.38	4.30	0.01	-	0.07	0.07	-	0.06	0.06	603.0	0.02	0.00
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Wheel Loader	Tractors/Loaders/Backhoes	4	8.5	84	0.37	Diesel	Tier 4 Final	0.12	0.61	8.62	0.01	-	0.02	0.02	-	0.02	0.02	1233.0	0.05	0.01
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Dozer	Rubber Tired Dozers	4	8.5	367	0.4	Diesel	Tier 4 Final	0.55	2.86	28.61	0.05	-	0.11	0.11	-	0.11	0.11	5858.2	0.24	0.05
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Compactor	Plate Compactors	4	8.5	8	0.43	Diesel	Fleet Avg	0.14	1.07	0.89	0.00	-	0.04	0.04	-	0.04	0.04	146.6	0.01	0.00
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Large Excavator	Excavators	4	8.5	36	0.38	Diesel	Fleet Avg	0.32	3.37	4.27	0.01	-	0.06	0.06	-	0.05	0.05	603.0	0.02	0.00
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Motor Grader	Graders	4	8.5	148	0.41	Diesel	Tier 4 Final	0.23	1.18	16.83	0.02	-	0.05	0.05	-	0.05	0.05	2415.4	0.10	0.02
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Wheel Loader	Tractors/Loaders/Backhoes	4	8.5	84	0.37	Diesel	Tier 4 Final	0.12	0.61	8.62	0.01	-	0.02	0.02	-	0.02	0.02	1233.0	0.05	0.01
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Dozer-1ea	Rubber Tired Dozers	8	8.5	367	0.4	Diesel	Tier 4 Final	1.10	5.72	57.22	0.11	-	0.22	0.22	-	0.22	0.22	#####	0.48	0.10
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	623 Scraper	Scrapers	4	8.5	423	0.48	Diesel	Tier 4 Final	0.76	3.96	39.57	0.07	-	0.15	0.15	-	0.15	0.15	8043.7	0.33	0.07
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Compactor	Plate Compactors	4	8.5	8	0.43	Diesel	Fleet Avg	0.14	1.07	0.89	0.00	-	0.04	0.04	-	0.04	0.04	146.5	0.01	0.00
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Compactor	Plate Compactors	4	8.5	8	0.43	Diesel	Fleet Avg	0.14	1.07	0.89	0.00	-	0.04	0.04	-	0.04	0.04	146.5	0.01	0.00
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Telescoping Fork	Rough Terrain Forklifts	4	8.5	96	0.4	Diesel	Tier 4 Final	0.14	0.75	10.65	0.01	-	0.03	0.03	-	0.03	0.03	1521.9	0.06	0.01
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Slip Form Paver	Pavers	2	8.5	81	0.42	Diesel	Tier 4 Final	0.06	0.33	4.72	0.01	-	0.01	0.01	-	0.01	0.01	670.5	0.03	0.01
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.16	1.49	1.92	0.00	-	0.02	0.02	-	0.02	0.02	259.3	0.01	0.00
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 3

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Total Emissions (tons) ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	Total Emissions (metric tons) CO_2	CH_4	N_2O	CO_2e
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.05	0.07	0.00	-	0.00	0.00	-	0.00	0.00	8.8	0.00	0.00	8.9
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.05	0.07	0.00	-	0.00	0.00	-	0.00	0.00	8.8	0.00	0.00	8.9
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.00	0.02	0.27	0.00	-	0.00	0.00	-	0.00	0.00	35.3	0.00	0.00	35.5
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.14	0.00	-	0.00	0.00	-	0.00	0.00	18.0	0.00	0.00	18.1
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.01	0.09	0.12	0.00	-	0.00	0.00	-	0.00	0.00	15.2	0.00	0.00	15.2
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.02	0.01	0.00	-	0.00	0.00	-	0.00	0.00	2.1	0.00	0.00	2.2
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.01	0.17	0.00	-	0.00	0.00	-	0.00	0.00	22.3	0.00	0.00	22.3
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.00	0.01	0.09	0.00	-	0.00	0.00	-	0.00	0.00	11.8	0.00	0.00	11.8
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.00	0.05	0.00	-	0.00	0.00	-	0.00	0.00	6.0	0.00	0.00	6.0
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.00	0.02	0.15	0.00	-	0.00	0.00	-	0.00	0.00	28.6	0.00	0.00	28.7
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Compactor	Plate Compactors	2	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.01	0.01	0.00	-	0.00	0.00	-	0.00	0.00	1.4	0.00	0.00	1.4
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Asphalt Paver	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.00	0.00	0.05	0.00	-	0.00	0.00	-	0.00	0.00	6.5	0.00	0.00	6.6
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Asphalt roller	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.04	0.04	0.00	-	0.00	0.00	-	0.00	0.00	5.9	0.00	0.00	5.9
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.05	0.06	0.00	-	0.00	0.00	-	0.00	0.00	7.5	0.00	0.00	7.5
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.05	0.06	0.00	-	0.00	0.00	-	0.00	0.00	7.5	0.00	0.00	7.5
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.00	0.02	0.23	0.00	-	0.00	0.00	-	0.00	0.00	30.1	0.00	0.00	30.2
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.12	0.00	-	0.00	0.00	-	0.00	0.00	15.4	0.00	0.00	15.4
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.12	0.00	-	0.00	0.00	-	0.00	0.00	15.4	0.00	0.00	15.4
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.01	0.08	0.11	0.00	-	0.00	0.00	-	0.00	0.00	12.9	0.00	0.00	13.0
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.01	0.01	0.00	-	0.00	0.00	-	0.00	0.00	1.8	0.00	0.00	1.8
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.01	0.15	0.00	-	0.00	0.00	-	0.00	0.00	19.0	0.00	0.00	19.0
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Asphalt Paver	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.00	0.01	0.13	0.00	-	0.00	0.00	-	0.00	0.00	16.7	0.00	0.00	16.8
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Asphalt Roller	Rollers	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.05	0.06	0.00	-	0.00	0.00	-	0.00	0.00	7.5	0.00	0.00	7.5
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Jack and Bore Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.00	0.01	0.16	0.00	-	0.00	0.00	-	0.00	0.00	20.3	0.00	0.00	20.4
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.07	0.08	0.00	-	0.00	0.00	-	0.00	0.00	10.5	0.00	0.00	10.6
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.07	0.08	0.00	-	0.00	0.00	-	0.00	0.00	10.5	0.00	0.00	10.6
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.00	0.02	0.32	0.00	-	0.00	0.00	-	0.00	0.00	42.2	0.00	0.00	42.3
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.17	0.00	-	0.00	0.00	-	0.00	0.00	21.5	0.00	0.00	21.6
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.17	0.00	-	0.00	0.00	-	0.00	0.00	21.5	0.00	0.00	21.6
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.01	0.11	0.15	0.00	-	0.00	0.00	-	0.00	0.00	18.1	0.00	0.00	18.2
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.02	0.02	0.00	-	0.00	0.00	-	0.00	0.00	2.6	0.00	0.00	2.6
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.01	0.21	0.00	-	0.00	0.00	-	0.00	0.00	26.6	0.00	0.00	26.7
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Asphalt Paver	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.00	0.01	0.18	0.00	-	0.00	0.00	-	0.00	0.00	23.4	0.00	0.00	23.5
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Asphalt Roller	Rollers	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.07	0.08	0.00	-	0.00	0.00	-	0.00	0.00	10.5	0.00	0.00	10.5
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Jack and Bore Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.00	0.02	0.22	0.00	-	0.00	0.00	-	0.00	0.00	28.4	0.00	0.00	28.5
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.05	0.06	0.00	-	0.00	0.00	-	0.00	0.00	7.5	0.00	0.00	7.5
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.05	0.06	0.00	-	0.00	0.00	-	0.00	0.00	7.5	0.00	0.00	7.5
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.00	0.02	0.23	0.00	-	0.00	0.00	-	0.00	0.00	30.1	0.00	0.00	30.2
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.12	0.00	-	0.00	0.00	-	0.00	0.00	15.4	0.00	0.00	15.4
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.12	0.00	-	0.00	0.00	-	0.00	0.00	15.4	0.00	0.00	15.4
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.01	0.08	0.11	0.00	-	0.00	0.00	-	0.00	0.00	12.9	0.00	0.00	13.0
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.01	0.01	0.00	-	0.00	0.00	-	0.00	0.00	1.8	0.00	0.00	1.8
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.01	0.15	0.00	-	0.00	0.00	-	0.00	0.00	19.0	0.00	0.00	19.0
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Asphalt Paver	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.00	0.01	0.13	0.00	-	0.00	0.00	-	0.00	0.00	16.7	0.00	0.00	16.8
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Asphalt Roller	Rollers	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.05	0.06	0.00	-	0.00	0.00	-	0.00	0.00	7.5	0.00	0.00	7.5
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Jack and Bore Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.00	0.01	0.16	0.00	-	0.00	0.00	-	0.00	0.00	20.3	0.00	0.00	20.4
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.07	0.08	0.00	-	0.00	0.00	-	0.00	0.00	10.5	0.00	0.00	10.6
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.07	0.08	0.00	-	0.00	0.00	-	0.00	0.00	10.5	0.00	0.00	10.6
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.00	0.02	0.32	0.00	-	0.00	0.00	-	0.00	0.00	42.2	0.00	0.00	42.3
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.17	0.00	-	0.00	0.00	-	0.00	0.00	21.5	0.00	0.00	21.6
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.17	0.00	-	0.00	0.00	-	0.00	0.00	21.5	0.00	0.00	21.6
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.01	0.11	0.15	0.00	-	0.00	0.00	-	0.00	0.00	18.1	0.00	0.00	18.2
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.02	0.02	0.00	-	0.00	0.00	-	0.00	0.00	2.6	0.00	0.00	2.6
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.01	0.21	0.00	-	0.00	0.00	-	0.00	0.00	26.6	0.00	0.00	26.7
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Asphalt Paver	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.00	0.01	0.18	0.00	-	0.00	0.00	-	0.00	0.00	23.4	0.00	0.00	23.5
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Asphalt Roller	Rollers	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.07	0.08	0.00	-	0.00	0.00	-	0.00	0.00	10.5	0.00	0.00	10.5
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Jack and Bore Rig	Bore/Drill Rigs	1	8.5	83	0.5	Diesel	Tier 4 Final	0.00	0.02	0.22	0.00	-	0.00	0.00	-	0.00	0.00	28.4	0.00	0.00	28.5
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.02	0.17	0.21	0.00	-	0.00	0.00	-	0.00	0.00	26.7	0.00	0.00	26.8
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.02	0.17	0.21	0.00	-	0.00	0.00	-	0.00	0.00	26.7	0.00	0.00	26.8
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.01	0.06	0.82	0.00	-	0.00	0.00	-	0.00	0.00	106.8	0.00	0.00	107.2
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.01	0.03	0.42	0.00	-	0.00	0.00	-	0.00	0.00	54.5	0.00	0.00	54.7
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.03	0.29	0.37	0.00	-	0.00	0.00	-	0.00	0.00	45.9	0.00	0.00	46.0
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.01	0.05	0.04	0.00	-	0.00	0.00	-	0.00	0.00	6.5	0.00	0.00	6.5
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.01	0.04	0.52	0.00	-	0.00	0.00	-	0.00	0.00	67.3	0.00	0.00	67.5
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Large Excavator	Excavators	4	8.5	36	0.38	Diesel	Fleet Avg	0.04	0.37	0.47	0.00	-	0.01	0.01	-	0.01	0.01	59.6	0.00	0.00	59.8
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Wheel Loader	Tractors/Loaders/Backhoes	4	8.5	84	0.37	Diesel	Tier 4 Final	0.01	0.07	0.94	0.00	-	0.00	0.00	-	0.00	0.00	121.9	0.00	0.00	122.3
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Dozer	Rubber Tired Dozers	4	8.5	367	0.4	Diesel	Tier 4 Final	0.06	0.31	3.12	0.01	-	0.01	0.01	-	0.01	0.01	579.3	0.02	0.00	581.3
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Compactor	Plate Compactors	4	8.5	8	0.43	Diesel	Fleet Avg	0.02	0.12	0.10	0.00	-	0.00	0.00	-	0.00	0.00	14.5	0.00	0.00	14.5
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Large Excavator	Excavators	4	8.5	36	0.38	Diesel	Fleet Avg	0.03	0.33	0.42	0.00	-	0.01	0.01	-	0.01	0.01	53.9	0.00	0.00	54.1
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Motor Grader	Graders	4	8.5	148	0.41	Diesel	Tier 4 Final	0.02	0.12	1.66	0.00	-	0.00	0.00	-	0.00	0.00	215.8	0.01	0.00	216.6
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Wheel Loader	Tractors/Loaders/Backhoes	4	8.5	84	0.37	Diesel	Tier 4 Final	0.01	0.06	0.85	0.00	-	0.00	0.00	-	0.00	0.00	110.2	0.00	0.00	110.6
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Dozer-1ea	Rubber Tired Dozers	8	8.5	367	0.4	Diesel	Tier 4 Final	0.11	0.56	5.64	0.01	-	0.02	0.02	-	0.02	0.02	1046.9	0.04	0.01	1050.5
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	623 Scraper	Scrapers	4	8.5	423	0.48	Diesel	Tier 4 Final	0.07	0.39	3.90	0.01	-	0.01	0.01	-	0.01	0.01	718.8	0.03	0.01	721.2
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Compactor	Plate Compactors	4	8.5	8	0.43	Diesel	Fleet Avg	0.01	0.11	0.09	0.00	-	0.00	0.00	-	0.00	0.00	13.1	0.00	0.00	13.1
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Compactor	Plate Compactors	4	8.5	8	0.43	Diesel	Fleet Avg	0.02	0.13	0.11	0.00	-	0.01	0.01	-	0.00	0.00	16.0	0.00	0.00	16.0
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Telescoping Fork	Rough Terrain Forklifts	4	8.5	96	0.4	Diesel	Tier 4 Final	0.02	0.09	1.28	0.00	-	0.00	0.00	-	0.00	0.00	165.7	0.01	0.00	166.2
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Slip Form Paver	Pavers	2	8.5	81	0.42	Diesel	Tier 4 Final	0.01	0.04	0.57	0.00	-	0.00	0.00	-	0.00	0.00	73.0	0.00	0.00	73.2
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.06	0.07	0.00	-	0.00	0.00	-	0.00	0.00	8.9	0.00	0.00	8.9
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.06	0.07	0.00	-	0.00	0.00	-	0.00	0.00	8.9	0.00	0.00	8.9
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.00	0.02	0.27	0.00	-	0.00	0.00	-	0.00	0.00	35.6	0.00	0.00	35.7
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.14	0.00	-	0.00	0.00	-	0.00	0.00	18.2	0.00	0.00	18.2
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.01	0.10	0.12	0.00	-	0.00	0.00	-	0.00	0.00	15.3	0.00	0.00	15.3
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.02	0.01	0.00	-	0.00	0.00	-	0.00	0.00	2.2	0.00	0.00	2.2
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.01	0.17	0.00	-	0.00	0.00	-	0.00	0.00	22.4	0.00	0.00	22.5

Sepulveda Transit Corridor Project - ALTERNATIVE 3

OFFROAD EQUIPMENT (ONSITE)[1]

																Emission Factor (g/bhp-hr)[3]														
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Large Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	532.42	0.02	0.00
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	623 Scraper	Scrapers	2	8.5	423	0.48	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	528.52	0.02	0.00
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Compactor	Plate Compactors	2	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.34	0.02	0.00
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Gantry Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	RTG Crane	Cranes	4	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Hydraulic Crane	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Telescoping Fork	Rough Terrain Forklifts	4	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Concrete Pump	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.26	2.98	0.01	-	0.17	0.17	-	0.15	0.15	568.32	0.02	0.00
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Manlift	Aerial Lifts	2	8.5	46	0.31	Diesel	Fleet Avg	0.15	2.86	3.07	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.33	3.30	4.19	0.01	-	0.07	0.07	-	0.06	0.06	588.07	0.02	0.00
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.33	3.30	4.19	0.01	-	0.07	0.07	-	0.06	0.06	588.07	0.02	0.00
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.34	3.25	4.24	0.01	-	0.04	0.04	-	0.04	0.04	574.00	0.02	0.00
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.37	0.02	0.00
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Wheel Loader	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	532.38	0.02	0.00
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Compactor	Plate Compactors	2	8.5	8	0.43	Diesel	Fleet Avg	0.55	4.14	3.47	0.01	-	0.16	0.16	-	0.15	0.15	568.37	0.02	0.00
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Asphalt Paver	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	525.84	0.02	0.00
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Asphalt roller	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.47	3.46	4.06	0.01	-	0.12	0.12	-	0.11	0.11	587.11	0.02	0.00
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Cranes	Cranes	4	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Concrete Pumps	Pumps	4	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.25	2.97	0.01	-	0.17	0.17	-	0.15	0.15	568.35	0.02	0.00

Notes:

1. Data based on alternative specific information.
2. Horsepower and load factor based on default values for equipment in CalEEMod.
3. In accordance with Metro's Green Construction Policy, all off-road equipment equal to or greater than 50 HP would have emission factors for Tier 4 Final equipment, off-road equipment less than 50 HP would use fleet average emission factors from CalEEMod.
4. For Tunneling activities, the tunnel boring machine (TBM) (not listed) would be electric-powered.

EXH = Exhaust

FD = Fugitive Dust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 3

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Daily Emissions (lb/day)												
															ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Large Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.09	0.85	1.08	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.06	0.30	4.31	0.01	-	0.01	0.01	-	0.01	0.01	616.5	0.03	0.01
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.14	0.72	7.15	0.01	-	0.03	0.03	-	0.03	0.03	1464.7	0.06	0.01
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	623 Scraper	Scrapers	2	8.5	423	0.48	Diesel	Tier 4 Final	0.38	1.98	19.79	0.04	-	0.08	0.08	-	0.08	0.08	4021.9	0.16	0.03
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Compactor	Plate Compactors	2	8.5	8	0.43	Diesel	Fleet Avg	0.07	0.53	0.45	0.00	-	0.02	0.02	-	0.02	0.02	73.3	0.00	0.00
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Gantry Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	RTG Crane	Cranes	4	8.5	367	0.29	Diesel	Tier 4 Final	0.40	2.07	20.74	0.04	-	0.08	0.08	-	0.08	0.08	4209.1	0.17	0.03
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Hydraulic Crane	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.20	1.04	10.37	0.02	-	0.04	0.04	-	0.04	0.04	2104.6	0.09	0.02
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Telescoping Fork	Rough Terrain Forklifts	4	8.5	96	0.4	Diesel	Tier 4 Final	0.14	0.75	10.65	0.01	-	0.03	0.03	-	0.03	0.03	1521.9	0.06	0.01
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.06	0.30	4.31	0.01	-	0.01	0.01	-	0.01	0.01	616.5	0.03	0.01
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Concrete Pump	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.17	1.30	0.91	0.00	-	0.05	0.05	-	0.05	0.05	173.4	0.01	0.00
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Manlift	Aerial Lifts	2	8.5	46	0.31	Diesel	Fleet Avg	0.08	1.53	1.64	0.00	-	0.01	0.01	-	0.01	0.01	313.7	0.01	0.00
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.08	0.85	1.07	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.08	0.85	1.07	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.15	1.47	1.91	0.00	-	0.02	0.02	-	0.02	0.02	259.1	0.01	0.00
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.04	0.27	0.22	0.00	-	0.01	0.01	-	0.01	0.01	36.6	0.00	0.00
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.66	0.00	-	0.01	0.01	-	0.01	0.01	380.5	0.02	0.00
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.06	0.30	4.21	0.01	-	0.01	0.01	-	0.01	0.01	603.9	0.02	0.00
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Wheel Loader	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.06	0.30	4.31	0.01	-	0.01	0.01	-	0.01	0.01	616.5	0.03	0.01
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.14	0.72	7.15	0.01	-	0.03	0.03	-	0.03	0.03	1464.5	0.06	0.01
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Compactor	Plate Compactors	2	8.5	8	0.43	Diesel	Fleet Avg	0.07	0.53	0.45	0.00	-	0.02	0.02	-	0.02	0.02	73.3	0.00	0.00
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Asphalt Paver	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.03	0.17	2.36	0.00	-	0.01	0.01	-	0.01	0.01	335.2	0.01	0.00
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Asphalt roller	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.24	1.77	2.08	0.00	-	0.06	0.06	-	0.06	0.06	301.0	0.01	0.00
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Cranes	Cranes	4	8.5	367	0.29	Diesel	Tier 4 Final	0.40	2.07	20.74	0.04	-	0.08	0.08	-	0.08	0.08	4209.1	0.17	0.03
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Concrete Pumps	Pumps	4	8.5	11	0.74	Diesel	Fleet Avg	0.34	2.59	1.81	0.00	-	0.10	0.10	-	0.09	0.09	346.8	0.01	0.00

Notes:

1. Data based on alternative specific information.
2. Horsepower and load factor based on default values for equipment in CalEEMod.
3. In accordance with Metro's Green Construction Policy, all off-road equipment equal to or greater than 50 HP would have emission factors for Tier 4 Final equipment, off-road equipment less than 50 HP would use fleet average emission factors from CalEEMod.
4. For Tunneling activities, the tunnel boring machine (TBM) (not listed) would be electric-powered.

EXH = Exhaust

FD = Fugitive Dust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 3

OFFROAD EQUIPMENT (ONSITE)[1]

																Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Large Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.05	0.06	0.00	-	0.00	0.00	-	0.00	0.00	7.5	0.00	0.00	7.5
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.05	0.06	0.00	-	0.00	0.00	-	0.00	0.00	7.5	0.00	0.00	7.5
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.00	0.02	0.23	0.00	-	0.00	0.00	-	0.00	0.00	30.1	0.00	0.00	30.2
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.02	0.24	0.00	-	0.00	0.00	-	0.00	0.00	30.8	0.00	0.00	30.9
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.01	0.04	0.39	0.00	-	0.00	0.00	-	0.00	0.00	73.1	0.00	0.00	73.3
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	623 Scraper	Scrapers	2	8.5	423	0.48	Diesel	Tier 4 Final	0.02	0.11	1.09	0.00	-	0.00	0.00	-	0.00	0.00	200.7	0.01	0.00	201.4
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Compactor	Plate Compactors	2	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.03	0.02	0.00	-	0.00	0.00	-	0.00	0.00	3.7	0.00	0.00	3.7
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Gantry Crane	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.01	0.03	0.28	0.00	-	0.00	0.00	-	0.00	0.00	51.1	0.00	0.00	51.2
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	RTG Crane	Cranes	4	8.5	367	0.29	Diesel	Tier 4 Final	0.02	0.11	1.11	0.00	-	0.00	0.00	-	0.00	0.00	204.3	0.01	0.00	205.0
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Hydraulic Crane	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.01	0.06	0.55	0.00	-	0.00	0.00	-	0.00	0.00	102.1	0.00	0.00	102.5
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Telescoping Fork	Rough Terrain Forklifts	4	8.5	96	0.4	Diesel	Tier 4 Final	0.01	0.04	0.57	0.00	-	0.00	0.00	-	0.00	0.00	73.9	0.00	0.00	74.1
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Wheel Loader	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.02	0.23	0.00	-	0.00	0.00	-	0.00	0.00	29.9	0.00	0.00	30.0
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Concrete Pump	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.01	0.07	0.05	0.00	-	0.00	0.00	-	0.00	0.00	8.4	0.00	0.00	8.4
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Manlift	Aerial Lifts	2	8.5	46	0.31	Diesel	Fleet Avg	0.00	0.08	0.09	0.00	-	0.00	0.00	-	0.00	0.00	15.2	0.00	0.00	15.3
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Medium Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.02	0.02	0.00	-	0.00	0.00	-	0.00	0.00	2.9	0.00	0.00	3.0
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Small Excavator	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.02	0.02	0.00	-	0.00	0.00	-	0.00	0.00	2.9	0.00	0.00	3.0
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.00	0.01	0.09	0.00	-	0.00	0.00	-	0.00	0.00	11.8	0.00	0.00	11.8
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Wheel Loader	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.00	0.05	0.00	-	0.00	0.00	-	0.00	0.00	6.0	0.00	0.00	6.0
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Pavement Saw	Concrete/Industrial Saws	1	8.5	33	0.73	Diesel	Fleet Avg	0.00	0.03	0.04	0.00	-	0.00	0.00	-	0.00	0.00	5.1	0.00	0.00	5.1
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Small Compactor	Plate Compactors	1	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.01	0.00	0.00	-	0.00	0.00	-	0.00	0.00	0.7	0.00	0.00	0.7
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Telescoping Fork	Rough Terrain Forklifts	1	8.5	96	0.4	Diesel	Tier 4 Final	0.00	0.00	0.06	0.00	-	0.00	0.00	-	0.00	0.00	7.4	0.00	0.00	7.4
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Motor Grader	Graders	1	8.5	148	0.41	Diesel	Tier 4 Final	0.00	0.01	0.14	0.00	-	0.00	0.00	-	0.00	0.00	18.1	0.00	0.00	18.1
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Wheel Loader	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.14	0.00	-	0.00	0.00	-	0.00	0.00	18.5	0.00	0.00	18.5
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Dozer	Rubber Tired Dozers	1	8.5	367	0.4	Diesel	Tier 4 Final	0.00	0.02	0.24	0.00	-	0.00	0.00	-	0.00	0.00	43.8	0.00	0.00	44.0
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Compactor	Plate Compactors	2	8.5	8	0.43	Diesel	Fleet Avg	0.00	0.02	0.01	0.00	-	0.00	0.00	-	0.00	0.00	2.2	0.00	0.00	2.2
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Asphalt Paver	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.00	0.01	0.08	0.00	-	0.00	0.00	-	0.00	0.00	10.0	0.00	0.00	10.1
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Asphalt roller	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.06	0.07	0.00	-	0.00	0.00	-	0.00	0.00	9.0	0.00	0.00	9.0
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Cranes	Cranes	4	8.5	367	0.29	Diesel	Tier 4 Final	0.16	0.81	8.11	0.02	-	0.03	0.03	-	0.03	0.03	1493.0	0.06	0.01	1498.1
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.4	Diesel	Tier 4 Final	0.03	0.15	2.08	0.00	-	0.01	0.01	-	0.01	0.01	269.9	0.01	0.00	270.8
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Concrete Pumps	Pumps	4	8.5	11	0.74	Diesel	Fleet Avg	0.13	1.01	0.71	0.00	-	0.04	0.04	-	0.04	0.04	123.0	0.00	0.00	123.4

Notes:

1. Data based on alternative specific information.
2. Horsepower and load factor based on default values for equipment in CalEEMod.
3. In accordance with Metro's Green Construction Policy, all off-road equipment equal to or greater than 50 HP would have emission factors for Tier 4 Final equipment, off-road equipment less than 50 HP would use fleet average emission factors from CalEEMod.
4. For Tunneling activities, the tunnel boring machine (TBM) (not listed) would be electric-powered.

EXH = Exhaust

FD = Fugitive Dust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 3

Demo Dust Control Reduction 36%

DEMOLITION FUGITIVE DUST (ONSITE)

								Demolition EF (lb pollutant/ton waste)[1]						Daily Emissions (lb/day)[2]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	Total Demo Debris Weight (tons)	Debris Weight (tons/day)	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	14815.7	22.6	0.022	-	0.022	0.003	-	0.003	0.314	-	0.314	0.047	-	0.047	0.103	-	0.103	0.016	-	0.016
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	485.0	0.7	0.022	-	0.022	0.003	-	0.003	0.010	-	0.010	0.002	-	0.002	0.003	-	0.003	0.001	-	0.001
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	287.2	0.4	0.022	-	0.022	0.003	-	0.003	0.006	-	0.006	0.001	-	0.001	0.002	-	0.002	0.000	-	0.000
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (CIE	6/1/2032	10/31/2033	5	370	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Assem	11/1/2033	11/30/2033	5	22	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2139.5	3.3	0.022	-	0.022	0.003	-	0.003	0.045	-	0.045	0.007	-	0.007	0.015	-	0.015	0.002	-	0.002
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	8/1/2032	5/31/2033	5	217	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	273.0	1.4	0.022	-	0.022	0.003	-	0.003	0.019	-	0.019	0.003	-	0.003	0.002	-	0.002	0.000	-	0.000
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	135.0	0.7	0.022	-	0.022	0.003	-	0.003	0.010	-	0.010	0.001	-	0.001	0.001	-	0.001	0.000	-	0.000
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	196.0	1.0	0.022	-	0.022	0.003	-	0.003	0.014	-	0.014	0.002	-	0.002	0.001	-	0.001	0.000	-	0.000
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	132.5	0.7	0.022	-	0.022	0.003	-	0.003	0.009	-	0.009	0.001	-	0.001	0.001	-	0.001	0.000	-	0.000
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	152.5	0.8	0.022	-	0.022	0.003	-	0.003	0.011	-	0.011	0.002	-	0.002	0.001	-	0.001	0.000	-	0.000
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	9650.0	17.7	0.022	-	0.022	0.003	-	0.003	0.246	-	0.246	0.037	-	0.037	0.067	-	0.067	0.010	-	0.010
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	1055.0	1.9	0.022	-	0.022	0.003	-	0.003	0.027	-	0.027	0.004	-	0.004	0.007	-	0.007	0.001	-	0.001
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	185.0	0.9	0.022	-	0.022	0.003	-	0.003	0.013	-	0.013	0.002	-	0.002	0.001	-	0.001	0.000	-	0.000
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	192.5	1.0	0.022	-	0.022	0.003	-	0.003	0.014	-	0.014	0.002	-	0.002	0.001	-	0.001	0.000	-	0.000
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 3

Demo Dust Control Reduction 36%

DEMOLITION FUGITIVE DUST (ONSITE)

								Demolition EF (lb pollutant/ton waste)[1]						Daily Emissions (lb/day)[2]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	Total Demo Debris Weight (tons)	Debris Weight (tons/day)	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	162.5	2.5	0.022	-	0.022	0.003	-	0.003	0.035	-	0.035	0.005	-	0.005	0.001	-	0.001	0.000	-	0.000
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	12.5	0.1	0.022	-	0.022	0.003	-	0.003	0.002	-	0.002	0.000	-	0.000	0.000	-	0.000	0.000	-	0.000
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	12.5	0.1	0.022	-	0.022	0.003	-	0.003	0.001	-	0.001	0.000	-	0.000	0.000	-	0.000	0.000	-	0.000
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	12.5	0.1	0.022	-	0.022	0.003	-	0.003	0.002	-	0.002	0.000	-	0.000	0.000	-	0.000	0.000	-	0.000
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	12.5	0.1	0.022	-	0.022	0.003	-	0.003	0.001	-	0.001	0.000	-	0.000	0.000	-	0.000	0.000	-	0.000
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	40000.0	183.5	0.022	-	0.022	0.003	-	0.003	2.544	-	2.544	0.385	-	0.385	0.277	-	0.277	0.042	-	0.042
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	823.3	6.3	0.022	-	0.022	0.003	-	0.003	0.088	-	0.088	0.013	-	0.013	0.006	-	0.006	0.001	-	0.001
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

1. Emission factor based on CalEEMod default value.
2. Emissions account for application of water 2 times per day during demolition activities.

FD = Fugitive Dust

EXH = Exhaust

Sepulveda Transit Corridor Project - ALTERNATIVE 3

Dust Control Reduction 74%

TRUCK LOADING FUGITIVE DUST (ONSITE)

										Truck Loading EF (lb pollutant/ton throughput)[2]						Daily Emissions (lb/day)[3]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	Total Soil Volume (CY)	Soil Density (tons/CY)[1]	Total Throughput (tons)	Daily Throughput (tons)	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	124084.1	1.26	156862.96	185.20	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.005	-	0.005	0.001	-	0.001	0.002	-	0.002	0.000	-	0.000
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	136100.0	1.26	172053.02	1117.23	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.032	-	0.032	0.005	-	0.005	0.002	-	0.002	0.000	-	0.000
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	705315.0	1.26	891635.38	1326.84	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.038	-	0.038	0.006	-	0.006	0.013	-	0.013	0.002	-	0.002
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (CI	6/1/2032	10/31/2033	5	370	10	2405.6	1.26	3041.11	8.22	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.000	-	0.000	0.000	-	0.000	0.000	-	0.000	0.000	-	0.000
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Assen	11/1/2033	11/30/2033	5	22	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	8/1/2032	5/31/2033	5	217	10	17918.3	1.26	22651.77	104.39	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.003	-	0.003	0.000	-	0.000	0.000	-	0.000	0.000	-	0.000
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	580.0	1.26	733.22	3.08	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.000	-	0.000	0.000	-	0.000	0.000	-	0.000	0.000	-	0.000
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	600.0	1.26	758.50	3.85	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.000	-	0.000	0.000	-	0.000	0.000	-	0.000	0.000	-	0.000
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	630.0	1.26	796.42	1.59	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.000	-	0.000	0.000	-	0.000	0.000	-	0.000	0.000	-	0.000
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	580.0	1.26	733.22	2.60	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.000	-	0.000	0.000	-	0.000	0.000	-	0.000	0.000	-	0.000
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	590.0	1.26	745.86	3.79	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.000	-	0.000	0.000	-	0.000	0.000	-	0.000	0.000	-	0.000
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	258815.0	1.26	327185.18	626.79	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.018	-	0.018	0.003	-	0.003	0.005	-	0.005	0.001	-	0.001
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	431100.0	1.26	544982.05	1044.03	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.030	-	0.030	0.005	-	0.005	0.008	-	0.008	0.001	-	0.001
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	595.0	1.26	752.18	3.82	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.000	-	0.000	0.000	-	0.000	0.000	-	0.000	0.000	-	0.000
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	580.0	1.26	733.22	3.08	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.000	-	0.000	0.000	-	0.000	0.000	-	0.000	0.000	-	0.000
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 3

Dust Control Reduction 74%

TRUCK LOADING FUGITIVE DUST (ONSITE)

										Truck Loading EF (lb pollutant/ton throughput)[2]						Daily Emissions (lb/day)[3]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	Total Soil Volume (CY)	Soil Density (tons/CY)[1]	Total Throughput (tons)	Daily Throughput (tons)	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	1763.3	1.26	2229.05	51.84	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.001	-	0.001	0.000	-	0.000	0.000	-	0.000	0.000	-	0.000
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	1763.3	1.26	2229.05	51.84	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.001	-	0.001	0.000	-	0.000	0.000	-	0.000	0.000	-	0.000
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	5333.3	1.26	6742.22	156.80	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.005	-	0.005	0.001	-	0.001	0.000	-	0.000	0.000	-	0.000
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	27818.0	1.26	35166.58	541.02	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.016	-	0.016	0.002	-	0.002	0.001	-	0.001	0.000	-	0.000
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	550.0	1.26	695.29	6.32	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.000	-	0.000	0.000	-	0.000	0.000	-	0.000	0.000	-	0.000
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	570.0	1.26	720.57	4.68	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.000	-	0.000	0.000	-	0.000	0.000	-	0.000	0.000	-	0.000
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	540.0	1.26	682.65	6.21	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.000	-	0.000	0.000	-	0.000	0.000	-	0.000	0.000	-	0.000
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	600.0	1.26	758.50	4.93	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.000	-	0.000	0.000	-	0.000	0.000	-	0.000	0.000	-	0.000
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	70000.0	1.26	88491.63	449.20	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.013	-	0.013	0.002	-	0.002	0.001	-	0.001	0.000	-	0.000
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	54450.0	1.26	68833.85	625.76	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.018	-	0.018	0.003	-	0.003	0.001	-	0.001	0.000	-	0.000
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	667.0	1.26	843.20	19.61	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.001	-	0.001	0.000	-	0.000	0.000	-	0.000	0.000	-	0.000
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

1. Conversion factor based on CalEEMod default value.
2. Emission factor based on CalEEMod default value.
3. Emissions account for dust control reduction from water application 3 times per day.

FD = Fugitive Dust

EXH = Exhaust

Sepulveda Transit Corridor Project - ALTERNATIVE 3

Dust Control Reduction 74%

BULLDOZING FUGITIVE DUST (ONSITE)

									Bulldozing EF (lb/hr)[1]						Daily Emissions (lb/day)[2,3]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Graders	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Concrete/Industrial Saws	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Plate Compactors	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Rough Terrain Forklifts	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Graders	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Concrete/Industrial Saws	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Plate Compactors	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Rough Terrain Forklifts	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	Bore/Drill Rigs	7	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	Cranes	7	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	Cranes	7	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	Rough Terrain Forklifts	14	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	Tractors/Loaders/Backhoes	7	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	Excavators	7	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	Pumps	7	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	Generator Sets	14	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	Rough Terrain Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	Pumps	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	Generator Sets	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	Rough Terrain Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	Generator Sets	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	Excavators	1	17.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	Excavators	1	17.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	Graders	1	17.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	Tractors/Loaders/Backhoes	1	17.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	Concrete/Industrial Saws	1	17.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	Plate Compactors	1	17.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	Rough Terrain Forklifts	1	17.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	Excavators	1	17.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	Excavators	1	17.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	Graders	1	17.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	Tractors/Loaders/Backhoes	1	17.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	Concrete/Industrial Saws	1	17.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	Plate Compactors	1	17.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	Rough Terrain Forklifts	1	17.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	Bore/Drill Rigs	1	17.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	Tractors/Loaders/Backhoes	2	17.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	Rough Terrain Forklifts	3	17.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	Cranes	1	17.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	Excavators	1	17.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	Cranes	1	17.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	Tractors/Loaders/Backhoes	1	17.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	Pumps	1	17.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	Generator Sets	3	17.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	Off-Highway Tractors	1	17.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	Rough Terrain Forklifts	2	17.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	Cranes	1	17.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	Tractors/Loaders/Backhoes	1	17.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	Generator Sets	2	17.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	Tunnel Boring Machine	1	17.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	Aerial Lifts	3	17.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	Rough Terrain Forklifts	3	17.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	Cranes	1	17.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	Excavators	1	17.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	Cranes	1	17.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	Tractors/Loaders/Backhoes	1	17.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	Pumps	1	17.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	Generator Sets	3	17.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 3

Dust Control Reduction 74%

BULLDOZING FUGITIVE DUST (ONSITE)

									Bulldozing EF (lb/hr)[1]						Daily Emissions (lb/day)[2,3]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Graders	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Concrete/Industrial Saws	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Plate Compactors	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Rough Terrain Forklifts	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Graders	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Concrete/Industrial Saws	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Plate Compactors	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Rough Terrain Forklifts	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (CIDH)	6/1/2032	10/31/2033	5	370	10	Bore/Drill Rigs	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (CIDH)	6/1/2032	10/31/2033	5	370	10	Tractors/Loaders/Backhoes	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (CIDH)	6/1/2032	10/31/2033	5	370	10	Rough Terrain Forklifts	3	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (CIDH)	6/1/2032	10/31/2033	5	370	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (CIDH)	6/1/2032	10/31/2033	5	370	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (CIDH)	6/1/2032	10/31/2033	5	370	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (CIDH)	6/1/2032	10/31/2033	5	370	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (CIDH)	6/1/2032	10/31/2033	5	370	10	Pumps	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (CIDH)	6/1/2032	10/31/2033	5	370	10	Generator Sets	3	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Assembly	11/1/2033	11/30/2033	5	22	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Assembly	11/1/2033	11/30/2033	5	22	10	Rough Terrain Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Assembly	11/1/2033	11/30/2033	5	22	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Assembly	11/1/2033	11/30/2033	5	22	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Assembly	11/1/2033	11/30/2033	5	22	10	Generator Sets	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Assembly	11/1/2033	11/30/2033	5	22	10	Aerial Lifts	3	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	Rough Terrain Forklifts	3	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	Pumps	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	Generator Sets	3	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Graders	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Concrete/Industrial Saws	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Plate Compactors	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Rough Terrain Forklifts	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Graders	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Concrete/Industrial Saws	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Plate Compactors	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Rough Terrain Forklifts	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	8/1/2032	5/31/2033	5	217	10	Bore/Drill Rigs	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	8/1/2032	5/31/2033	5	217	10	Cranes	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	8/1/2032	5/31/2033	5	217	10	Cranes	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	8/1/2032	5/31/2033	5	217	10	Rough Terrain Forklifts	4	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	8/1/2032	5/31/2033	5	217	10	Tractors/Loaders/Backhoes	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	8/1/2032	5/31/2033	5	217	10	Excavators	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	8/1/2032	5/31/2033	5	217	10	Pumps	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	8/1/2032	5/31/2033	5	217	10	Generator Sets	4	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	Rough Terrain Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	Pumps	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	Generator Sets	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	Rough Terrain Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	Generator Sets	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Graders	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Concrete/Industrial Saws	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Plate Compactors	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Rough Terrain Forklifts	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 3

Dust Control Reduction 74%

BULLDOZING FUGITIVE DUST (ONSITE)

									Bulldozing EF (lb/hr)[1]						Daily Emissions (lb/day)[2,3]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Graders	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Concrete/Industrial Saws	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Plate Compactors	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Rough Terrain Forklifts	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Bore/Drill Rigs	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Rough Terrain Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Pumps	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Generator Sets	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	Rough Terrain Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	Pumps	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	Generator Sets	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	Rough Terrain Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	Generator Sets	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Graders	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Concrete/Industrial Saws	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Plate Compactors	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Rough Terrain Forklifts	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Graders	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Concrete/Industrial Saws	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Plate Compactors	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Rough Terrain Forklifts	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Bore/Drill Rigs	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Rough Terrain Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Pumps	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Generator Sets	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	Rough Terrain Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	Pumps	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	Generator Sets	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	Rough Terrain Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	Generator Sets	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Graders	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Concrete/Industrial Saws	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Plate Compactors	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Rough Terrain Forklifts	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Graders	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Concrete/Industrial Saws	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Plate Compactors	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Rough Terrain Forklifts	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 3

Dust Control Reduction 74%

BULLDOZING FUGITIVE DUST (ONSITE)

									Bulldozing EF (lb/hr)[1]						Daily Emissions (lb/day)[2,3]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	Bore/Drill Rigs	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	Rough Terrain Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	Pumps	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	Generator Sets	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	Rough Terrain Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	Pumps	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	Generator Sets	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	Rough Terrain Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	Generator Sets	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Graders	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Concrete/Industrial Saws	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Plate Compactors	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Rough Terrain Forklifts	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Graders	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Concrete/Industrial Saws	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Plate Compactors	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Rough Terrain Forklifts	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	Bore/Drill Rigs	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	Rough Terrain Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	Pumps	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	Generator Sets	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	Rough Terrain Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	Pumps	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	Generator Sets	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	Rough Terrain Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	Generator Sets	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Graders	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Concrete/Industrial Saws	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Plate Compactors	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Rough Terrain Forklifts	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Graders	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Concrete/Industrial Saws	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Plate Compactors	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Rough Terrain Forklifts	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Bore/Drill Rigs	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Rough Terrain Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Pumps	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Generator Sets	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 3

Dust Control Reduction 74%

BULLDOZING FUGITIVE DUST (ONSITE)

									Bulldozing EF (lb/hr)[1]						Daily Emissions (lb/day)[2,3]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	Rough Terrain Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	Pumps	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	Generator Sets	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	Rough Terrain Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	Generator Sets	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	Graders	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	Concrete/Industrial Saws	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	Plate Compactors	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	Rough Terrain Forklifts	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	Graders	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	Concrete/Industrial Saws	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	Plate Compactors	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	Rough Terrain Forklifts	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	Bore/Drill Rigs	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	Rough Terrain Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	Pumps	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	Generator Sets	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	Rough Terrain Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	Pumps	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	Generator Sets	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	Rough Terrain Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	Generator Sets	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	Graders	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	Concrete/Industrial Saws	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	Plate Compactors	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	Rough Terrain Forklifts	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	Graders	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	Concrete/Industrial Saws	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	Plate Compactors	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	Rough Terrain Forklifts	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	Bore/Drill Rigs	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	Rough Terrain Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	Pumps	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	Generator Sets	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	Rough Terrain Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	Pumps	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	Generator Sets	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	Rough Terrain Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	Generator Sets	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 3

Dust Control Reduction 74%

BULLDOZING FUGITIVE DUST (ONSITE)

									Bulldozing EF (lb/hr)[1]						Daily Emissions (lb/day)[2,3]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Graders	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Concrete/Industrial Saws	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Plate Compactors	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Rough Terrain Forklifts	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Graders	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Concrete/Industrial Saws	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Plate Compactors	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Rough Terrain Forklifts	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Bore/Drill Rigs	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Rough Terrain Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Pumps	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Generator Sets	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	Rough Terrain Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	Pumps	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	Generator Sets	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	Rough Terrain Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	Generator Sets	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Graders	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Concrete/Industrial Saws	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Plate Compactors	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Rough Terrain Forklifts	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Graders	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Concrete/Industrial Saws	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Plate Compactors	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Rough Terrain Forklifts	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Bore/Drill Rigs	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Rough Terrain Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Pumps	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Generator Sets	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	Rough Terrain Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	Pumps	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	Generator Sets	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	Rough Terrain Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	Generator Sets	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Graders	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Concrete/Industrial Saws	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Plate Compactors	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Rough Terrain Forklifts	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Rubber Tired Dozers	1	8.5	0.753	-	0.753	0.414	-	0.414	1.664	-	1.664	0.914	-	0.914	0.053	-	0.053	0.029	-	0.029
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Plate Compactors	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 3

Dust Control Reduction 74%

BULLDOZING FUGITIVE DUST (ONSITE)

									Bulldozing EF (lb/hr)[1]						Daily Emissions (lb/day)[2,3]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Graders	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Rubber Tired Dozers	1	8.5	0.753	-	0.753	0.414	-	0.414	1.664	-	1.664	0.914	-	0.914	0.036	-	0.036	0.020	-	0.020
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Plate Compactors	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	Plate Compactors	4	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	Rough Terrain Forklifts	4	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	Pumps	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	Graders	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	Concrete/Industrial Saws	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	Plate Compactors	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	Rough Terrain Forklifts	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	Graders	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	Tractors/Loaders/Backhoes	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	Rubber Tired Dozers	1	8.5	0.753	-	0.753	0.414	-	0.414	1.664	-	1.664	0.914	-	0.914	0.018	-	0.018	0.010	-	0.010
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	Plate Compactors	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	Pavers	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	Rollers	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Graders	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Concrete/Industrial Saws	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Plate Compactors	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Rough Terrain Forklifts	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Rubber Tired Dozers	1	8.5	0.753	-	0.753	0.414	-	0.414	1.664	-	1.664	0.914	-	0.914	0.053	-	0.053	0.029	-	0.029
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Plate Compactors	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Graders	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Rubber Tired Dozers	1	8.5	0.753	-	0.753	0.414	-	0.414	1.664	-	1.664	0.914	-	0.914	0.036	-	0.036	0.020	-	0.020
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Plate Compactors	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	Plate Compactors	4	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	Rough Terrain Forklifts	4	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	Pumps	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	Graders	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	Concrete/Industrial Saws	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	Plate Compactors	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	Rough Terrain Forklifts	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	Graders	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	Tractors/Loaders/Backhoes	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	Rubber Tired Dozers	1	8.5	0.753	-	0.753	0.414	-	0.414	1.664	-	1.664	0.914	-	0.914	0.018	-	0.018	0.010	-	0.010
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	Plate Compactors	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	Pavers	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	Rollers	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Graders	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Concrete/Industrial Saws	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Plate Compactors	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Rough Terrain Forklifts	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Rubber Tired Dozers	1	8.5	0.753	-	0.753	0.414	-	0.414	1.664	-	1.664	0.914	-	0.914	0.053	-	0.053	0.029	-	0.029
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Plate Compactors	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Graders	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Rubber Tired Dozers	1	8.5	0.753	-	0.753	0.414	-	0.414	1.664	-	1.664	0.914	-	0.914	0.036	-	0.036	0.020	-	0.020
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Plate Compactors	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	Plate Compactors	4	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	Rough Terrain Forklifts	4	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	Pumps	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 3

Dust Control Reduction 74%

BULLDOZING FUGITIVE DUST (ONSITE)

									Bulldozing EF (lb/hr)[1]						Daily Emissions (lb/day)[2,3]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	Graders	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	Concrete/Industrial Saws	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	Plate Compactors	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	Rough Terrain Forklifts	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	Graders	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	Tractors/Loaders/Backhoes	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	Rubber Tired Dozers	1	8.5	0.753	-	0.753	0.414	-	0.414	1.664	-	1.664	0.914	-	0.914	0.018	-	0.018	0.010	-	0.010
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	Plate Compactors	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	Pavers	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	Rollers	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	Graders	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	Concrete/Industrial Saws	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	Plate Compactors	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	Rough Terrain Forklifts	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Graders	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Concrete/Industrial Saws	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Plate Compactors	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Rough Terrain Forklifts	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	Graders	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	Tractors/Loaders/Backhoes	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	Rubber Tired Dozers	1	8.5	0.753	-	0.753	0.414	-	0.414	1.664	-	1.664	0.914	-	0.914	0.054	-	0.054	0.030	-	0.030
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	Scrapers	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	Plate Compactors	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	Rough Terrain Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	Pumps	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	Aerial Lifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	Graders	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	Concrete/Industrial Saws	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	Plate Compactors	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	Rough Terrain Forklifts	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	Graders	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	Rubber Tired Dozers	1	8.5	0.753	-	0.753	0.414	-	0.414	1.664	-	1.664	0.914	-	0.914	0.036	-	0.036	0.020	-	0.020
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	Plate Compactors	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	Pavers	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	Rollers	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Graders	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Concrete/Industrial Saws	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Plate Compactors	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Rough Terrain Forklifts	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Pavers	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Rollers	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Bore/Drill Rigs	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Graders	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Concrete/Industrial Saws	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Plate Compactors	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Rough Terrain Forklifts	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Pavers	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Rollers	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Bore/Drill Rigs	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 3

Dust Control Reduction 74%

BULLDOZING FUGITIVE DUST (ONSITE)

									Bulldozing EF (lb/hr)[1]						Daily Emissions (lb/day)[2,3]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Graders	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Concrete/Industrial Saws	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Plate Compactors	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Rough Terrain Forklifts	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Pavers	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Rollers	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Bore/Drill Rigs	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Graders	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Concrete/Industrial Saws	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Plate Compactors	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Rough Terrain Forklifts	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Pavers	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Rollers	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Bore/Drill Rigs	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	Graders	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	Concrete/Industrial Saws	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	Plate Compactors	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	Rough Terrain Forklifts	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	Excavators	4	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	Tractors/Loaders/Backhoes	4	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	Rubber Tired Dozers	4	8.5	0.753	-	0.753	0.414	-	0.414	6.654	-	6.654	3.658	-	3.658	0.725	-	0.725	0.399	-	0.399
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	Plate Compactors	4	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	Excavators	4	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	Graders	4	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	Tractors/Loaders/Backhoes	4	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	Rubber Tired Dozers	8	8.5	0.753	-	0.753	0.414	-	0.414	13.309	-	13.309	7.316	-	7.316	1.311	-	1.311	0.721	-	0.721
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	Scrapers	4	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	Plate Compactors	4	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	Plate Compactors	4	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	Rough Terrain Forklifts	4	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	Pavers	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	Graders	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	Concrete/Industrial Saws	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	Plate Compactors	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	Rough Terrain Forklifts	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	Graders	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	Tractors/Loaders/Backhoes	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	Rubber Tired Dozers	1	8.5	0.753	-	0.753	0.414	-	0.414	1.664	-	1.664	0.914	-	0.914	0.091	-	0.091	0.050	-	0.050
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	Scrapers	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	Plate Compactors	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	Cranes	4	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	Cranes	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	Rough Terrain Forklifts	4	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	Tractors/Loaders/Backhoes	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	Pumps	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	Aerial Lifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	Graders	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	Concrete/Industrial Saws	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	Plate Compactors	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	Rough Terrain Forklifts	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 3

Dust Control Reduction 74%

BULLDOZING FUGITIVE DUST (ONSITE)

									Bulldozing EF (lb/hr)[1]						Daily Emissions (lb/day)[2,3]						Total Emissions (tons)					
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Hours per Workday**	**CalEEmod Equipment Type**	**# of Equipment**	**Daily Usage (hr/day)**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	Graders	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	Tractors/Loaders/Backhoes	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	Rubber Tired Dozers	1	8.5	0.753	-	0.753	0.414	-	0.414	1.664	-	1.664	0.914	-	0.914	0.055	-	0.055	0.030	-	0.030
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	Plate Compactors	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	Pavers	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	Rollers	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	Cranes	4	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	Rough Terrain Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	Pumps	4	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

1. Emission factor based on CalEEMod default value.
2. Emissions account for dust control reduction from water application 3 times per day.
3. Bulldozing emissions are only calculated for Rubber Tired Dozers which is consistent with CalEEMod methodology.

FD = Fugitive Dust

EXH = Exhaust

Sepulveda Transit Corridor Project - ALTERNATIVE 3

Dust Control Reduction 74%

GRADING FUGITIVE DUST (ONSITE)

												Grading EF (lb/VMT)[3]						Daily Emissions (lb/day)[4,5]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	Acres Graded per 8-hr day	Scaling Factor[1]	Acres per day	Daily VMT[2]	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Graders	1.0	8.5	0.50	8.0	0.531	0.365	1.543	-	1.543	0.167	-	0.167	0.146	-	0.146	0.016	-	0.016	0.077	-	0.077	0.008	-	0.008
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Concrete/Industrial Saws	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Plate Compactors	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Rough Terrain Forklifts	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Graders	1.0	8.5	0.50	8.0	0.531	0.365	1.543	-	1.543	0.167	-	0.167	0.146	-	0.146	0.016	-	0.016	0.048	-	0.048	0.005	-	0.005
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Concrete/Industrial Saws	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Plate Compactors	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Rough Terrain Forklifts	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	Bore/Drill Rigs	7.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	Cranes	7.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	Cranes	7.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	Rough Terrain Forklifts	14.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	Tractors/Loaders/Backhoes	7.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	Excavators	7.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	Pumps	7.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	Generator Sets	14.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	Cranes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	Cranes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	Rough Terrain Forklifts	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	Pumps	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	Generator Sets	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	Cranes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	Rough Terrain Forklifts	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	Generator Sets	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	Excavators	1.0	17.0	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	Excavators	1.0	17.0	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	Graders	1.0	17.0	0.50	8.0	1.063	0.730	1.543	-	1.543	0.167	-	0.167	0.293	-	0.293	0.032	-	0.032	0.153	-	0.153	0.017	-	0.017
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	Tractors/Loaders/Backhoes	1.0	17.0	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	Concrete/Industrial Saws	1.0	17.0	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	Plate Compactors	1.0	17.0	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	Rough Terrain Forklifts	1.0	17.0	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	Excavators	1.0	17.0	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	Excavators	1.0	17.0	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	Graders	1.0	17.0	0.50	8.0	1.063	0.730	1.543	-	1.543	0.167	-	0.167	0.293	-	0.293	0.032	-	0.032	0.096	-	0.096	0.010	-	0.010
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	Tractors/Loaders/Backhoes	1.0	17.0	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	Concrete/Industrial Saws	1.0	17.0	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	Plate Compactors	1.0	17.0	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	Rough Terrain Forklifts	1.0	17.0	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	Bore/Drill Rigs	1.0	17.0	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	Tractors/Loaders/Backhoes	2.0	17.0	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	Rough Terrain Forklifts	3.0	17.0	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	Cranes	1.0	17.0	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	Excavators	1.0	17.0	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	Cranes	1.0	17.0	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	Tractors/Loaders/Backhoes	1.0	17.0	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	Pumps	1.0	17.0	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	Generator Sets	3.0	17.0	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	Off-Highway Tractors	1.0	17.0	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	Rough Terrain Forklifts	2.0	17.0	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	Cranes	1.0	17.0	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	Tractors/Loaders/Backhoes	1.0	17.0	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	Generator Sets	2.0	17.0	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	Tunnel Boring Machine	1.0	17.0	-	9.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	Aerial Lifts	3.0	17.0	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	Rough Terrain Forklifts	3.0	17.0	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	Cranes	1.0	17.0	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	Excavators	1.0	17.0	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	Cranes	1.0	17.0	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	Tractors/Loaders/Backhoes	1.0	17.0	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	Pumps	1.0	17.0	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	Generator Sets	3.0	17.0	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Graders	1.0	8.5	0.50	8.0	0.531	0.365	1.543	-	1.543	0.167	-	0.167	0.146	-	0.146	0.016	-	0.016	0.077	-	0.077	0.008	-	0.008
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Concrete/Industrial Saws	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Plate Compactors	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Rough Terrain Forklifts	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 3

Dust Control Reduction 74%

GRADING FUGITIVE DUST (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	Acres Graded per 8-hr day	Scaling Factor[1]	Acres per day	Daily VMT[2]	Grading EF (lb/VMT)[3] PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	Daily Emissions (lb/day)[4,5] PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	Total Emissions (tons) PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Graders	1.0	8.5	0.50	8.0	0.531	0.365	1.543	-	1.543	0.167	-	0.167	0.146	-	0.146	0.016	-	0.016	0.048	-	0.048	0.005	-	0.005
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Concrete/Industrial Saws	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Plate Compactors	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Rough Terrain Forklifts	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (Cl	6/1/2032	10/31/2033	5	370	10	Bore/Drill Rigs	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (Cl	6/1/2032	10/31/2033	5	370	10	Tractors/Loaders/Backhoes	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (Cl	6/1/2032	10/31/2033	5	370	10	Rough Terrain Forklifts	3.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (Cl	6/1/2032	10/31/2033	5	370	10	Cranes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (Cl	6/1/2032	10/31/2033	5	370	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (Cl	6/1/2032	10/31/2033	5	370	10	Cranes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (Cl	6/1/2032	10/31/2033	5	370	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (Cl	6/1/2032	10/31/2033	5	370	10	Pumps	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (Cl	6/1/2032	10/31/2033	5	370	10	Generator Sets	3.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Asser	11/1/2033	11/30/2033	5	22	10	Cranes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Asser	11/1/2033	11/30/2033	5	22	10	Rough Terrain Forklifts	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Asser	11/1/2033	11/30/2033	5	22	10	Cranes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Asser	11/1/2033	11/30/2033	5	22	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Asser	11/1/2033	11/30/2033	5	22	10	Generator Sets	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Asser	11/1/2033	11/30/2033	5	22	10	Aerial Lifts	3.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	Rough Terrain Forklifts	3.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	Cranes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	Cranes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	Pumps	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	Generator Sets	3.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Graders	1.0	8.5	0.50	8.0	0.531	0.365	1.543	-	1.543	0.167	-	0.167	0.146	-	0.146	0.016	-	0.016	0.077	-	0.077	0.008	-	0.008
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Concrete/Industrial Saws	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Plate Compactors	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Rough Terrain Forklifts	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Graders	1.0	8.5	0.50	8.0	0.531	0.365	1.543	-	1.543	0.167	-	0.167	0.146	-	0.146	0.016	-	0.016	0.048	-	0.048	0.005	-	0.005
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Concrete/Industrial Saws	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Plate Compactors	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Rough Terrain Forklifts	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	Bore/Drill Rigs	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	Cranes	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	Cranes	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	Rough Terrain Forklifts	4.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	Tractors/Loaders/Backhoes	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	Excavators	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	Pumps	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	Generator Sets	4.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	Cranes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	Cranes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	Rough Terrain Forklifts	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	Pumps	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	Generator Sets	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	Cranes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	Rough Terrain Forklifts	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	Generator Sets	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Graders	1.0	8.5	0.50	8.0	0.531	0.365	1.543	-	1.543	0.167	-	0.167	0.146	-	0.146	0.016	-	0.016	0.048	-	0.048	0.005	-	0.005
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Concrete/Industrial Saws	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Plate Compactors	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Rough Terrain Forklifts	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Graders	1.0	8.5	0.50	8.0	0.531	0.365	1.543	-	1.543	0.167	-	0.167	0.146	-	0.146	0.016	-	0.016	0.014	-	0.014	0.002	-	0.002
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Concrete/Industrial Saws	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Plate Compactors	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Rough Terrain Forklifts	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Bore/Drill Rigs	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Cranes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Cranes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Rough Terrain Forklifts	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Pumps	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Generator Sets	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 3

Dust Control Reduction 74%

GRADING FUGITIVE DUST (ONSITE)

													Grading EF (lb/VMT)[3]						Daily Emissions (lb/day)[4,5]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	Acres Graded per 8-hr day	Scaling Factor[1]	Acres per day	Daily VMT[2]	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	Cranes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	Cranes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	Rough Terrain Forklifts	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	Pumps	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	Generator Sets	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	Cranes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	Rough Terrain Forklifts	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	Generator Sets	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Graders	1.0	8.5	0.50	8.0	0.531	0.365	1.543	-	1.543	0.167	-	0.167	0.146	-	0.146	0.016	-	0.016	0.048	-	0.048	0.005	-	0.005
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Concrete/Industrial Saws	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Plate Compactors	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Rough Terrain Forklifts	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Graders	1.0	8.5	0.50	8.0	0.531	0.365	1.543	-	1.543	0.167	-	0.167	0.146	-	0.146	0.016	-	0.016	0.014	-	0.014	0.002	-	0.002
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Concrete/Industrial Saws	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Plate Compactors	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Rough Terrain Forklifts	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Bore/Drill Rigs	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Cranes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Cranes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Rough Terrain Forklifts	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Pumps	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Generator Sets	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	Cranes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	Cranes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	Rough Terrain Forklifts	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	Pumps	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	Generator Sets	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	Cranes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	Rough Terrain Forklifts	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	Generator Sets	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Graders	1.0	8.5	0.50	8.0	0.531	0.365	1.543	-	1.543	0.167	-	0.167	0.146	-	0.146	0.016	-	0.016	0.048	-	0.048	0.005	-	0.005
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Concrete/Industrial Saws	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Plate Compactors	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Rough Terrain Forklifts	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Graders	1.0	8.5	0.50	8.0	0.531	0.365	1.543	-	1.543	0.167	-	0.167	0.146	-	0.146	0.016	-	0.016	0.014	-	0.014	0.002	-	0.002
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Concrete/Industrial Saws	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Plate Compactors	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Rough Terrain Forklifts	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	Bore/Drill Rigs	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	Cranes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	Cranes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	Rough Terrain Forklifts	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	Pumps	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	Generator Sets	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	Cranes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	Cranes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	Rough Terrain Forklifts	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	Pumps	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	Generator Sets	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	Cranes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	Rough Terrain Forklifts	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	Generator Sets	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 3

Dust Control Reduction 74%

GRADING FUGITIVE DUST (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	Acres Graded per 8-hr day	Scaling Factor[1]	Acres per day	Daily VMT[2]	Grading EF (lb/VMT)[3] PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	Daily Emissions (lb/day)[4,5] PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	Total Emissions (tons) PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Graders	1.0	8.5	0.50	8.0	0.531	0.365	1.543	-	1.543	0.167	-	0.167	0.146	-	0.146	0.016	-	0.016	0.048	-	0.048	0.005	-	0.005
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Concrete/Industrial Saws	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Plate Compactors	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Rough Terrain Forklifts	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Graders	1.0	8.5	0.50	8.0	0.531	0.365	1.543	-	1.543	0.167	-	0.167	0.146	-	0.146	0.016	-	0.016	0.014	-	0.014	0.002	-	0.002
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Concrete/Industrial Saws	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Plate Compactors	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Rough Terrain Forklifts	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	Bore/Drill Rigs	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	Cranes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	Cranes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	Rough Terrain Forklifts	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	Pumps	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	Generator Sets	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	Cranes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	Cranes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	Rough Terrain Forklifts	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	Pumps	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	Generator Sets	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	Cranes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	Rough Terrain Forklifts	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	Generator Sets	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Graders	1.0	8.5	0.50	8.0	0.531	0.365	1.543	-	1.543	0.167	-	0.167	0.146	-	0.146	0.016	-	0.016	0.048	-	0.048	0.005	-	0.005
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Concrete/Industrial Saws	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Plate Compactors	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Rough Terrain Forklifts	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Graders	1.0	8.5	0.50	8.0	0.531	0.365	1.543	-	1.543	0.167	-	0.167	0.146	-	0.146	0.016	-	0.016	0.014	-	0.014	0.002	-	0.002
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Concrete/Industrial Saws	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Plate Compactors	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Rough Terrain Forklifts	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Bore/Drill Rigs	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Cranes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Cranes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Rough Terrain Forklifts	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Pumps	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Generator Sets	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	Cranes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	Cranes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	Rough Terrain Forklifts	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	Pumps	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	Generator Sets	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	Cranes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	Rough Terrain Forklifts	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	Generator Sets	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	Graders	1.0	8.5	0.50	8.0	0.531	0.365	1.543	-	1.543	0.167	-	0.167	0.146	-	0.146	0.016	-	0.016	0.059	-	0.059	0.006	-	0.006
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	Concrete/Industrial Saws	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	Plate Compactors	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	Rough Terrain Forklifts	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	Graders	1.0	8.5	0.50	8.0	0.531	0.365	1.543	-	1.543	0.167	-	0.167	0.146	-	0.146	0.016	-	0.016	0.040	-	0.040	0.004	-	0.004
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	Concrete/Industrial Saws	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	Plate Compactors	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	Rough Terrain Forklifts	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 3

Dust Control Reduction 74%

GRADING FUGITIVE DUST (ONSITE)

												Grading EF (lb/VMT)[3]						Daily Emissions (lb/day)[4,5]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	Acres Graded per 8-hr day	Scaling Factor[1]	Acres per day	Daily VMT[2]	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	Bore/Drill Rigs	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	Cranes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	Cranes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	Rough Terrain Forklifts	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	Pumps	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	Generator Sets	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	Cranes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	Cranes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	Rough Terrain Forklifts	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	Pumps	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	Generator Sets	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	Cranes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	Rough Terrain Forklifts	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	Generator Sets	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	Graders	1.0	8.5	0.50	8.0	0.531	0.365	1.543	-	1.543	0.167	-	0.167	0.146	-	0.146	0.016	-	0.016	0.059	-	0.059	0.006	-	0.006
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	Concrete/Industrial Saws	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	Plate Compactors	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	Rough Terrain Forklifts	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	Graders	1.0	8.5	0.50	8.0	0.531	0.365	1.543	-	1.543	0.167	-	0.167	0.146	-	0.146	0.016	-	0.016	0.040	-	0.040	0.004	-	0.004
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	Concrete/Industrial Saws	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	Plate Compactors	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	Rough Terrain Forklifts	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	Bore/Drill Rigs	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	Cranes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	Cranes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	Rough Terrain Forklifts	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	Pumps	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	Generator Sets	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	Cranes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	Cranes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	Rough Terrain Forklifts	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	Pumps	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	Generator Sets	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	Cranes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	Rough Terrain Forklifts	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	Generator Sets	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Graders	1.0	8.5	0.50	8.0	0.531	0.365	1.543	-	1.543	0.167	-	0.167	0.146	-	0.146	0.016	-	0.016	0.048	-	0.048	0.005	-	0.005
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Concrete/Industrial Saws	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Plate Compactors	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Rough Terrain Forklifts	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Graders	1.0	8.5	0.50	8.0	0.531	0.365	1.543	-	1.543	0.167	-	0.167	0.146	-	0.146	0.016	-	0.016	0.014	-	0.014	0.002	-	0.002
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Concrete/Industrial Saws	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Plate Compactors	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Rough Terrain Forklifts	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Bore/Drill Rigs	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Cranes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Cranes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Rough Terrain Forklifts	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Pumps	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Generator Sets	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	Cranes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	Cranes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	Rough Terrain Forklifts	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	Pumps	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	Generator Sets	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	Cranes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	Rough Terrain Forklifts	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	Generator Sets	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 3

Dust Control Reduction 74%

GRADING FUGITIVE DUST (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	Acres Graded per 8-hr day	Scaling Factor[1]	Acres per day	Daily VMT[2]	Grading EF (lb/VMT)[3] PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	Daily Emissions (lb/day)[4,5] PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	Total Emissions (tons) PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Graders	1.0	8.5	0.50	8.0	0.531	0.365	1.543	-	1.543	0.167	-	0.167	0.146	-	0.146	0.016	-	0.016	0.048	-	0.048	0.005	-	0.005
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Concrete/Industrial Saws	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Plate Compactors	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Rough Terrain Forklifts	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Graders	1.0	8.5	0.50	8.0	0.531	0.365	1.543	-	1.543	0.167	-	0.167	0.146	-	0.146	0.016	-	0.016	0.014	-	0.014	0.002	-	0.002
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Concrete/Industrial Saws	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Plate Compactors	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Rough Terrain Forklifts	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Bore/Drill Rigs	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Cranes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Cranes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Rough Terrain Forklifts	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Pumps	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Generator Sets	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	Cranes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	Cranes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	Rough Terrain Forklifts	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	Pumps	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	Generator Sets	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	Cranes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	Rough Terrain Forklifts	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	Generator Sets	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Graders	1.0	8.5	0.50	8.0	0.531	0.365	1.543	-	1.543	0.167	-	0.167	0.146	-	0.146	0.016	-	0.016	0.013	-	0.013	0.001	-	0.001
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Concrete/Industrial Saws	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Plate Compactors	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Rough Terrain Forklifts	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Rubber Tired Dozers	1.0	8.5	0.50	8.0	0.531	0.365	1.543	-	1.543	0.167	-	0.167	0.146	-	0.146	0.016	-	0.016	0.005	-	0.005	0.001	-	0.001
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Plate Compactors	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Graders	1.0	8.5	0.50	8.0	0.531	0.365	1.543	-	1.543	0.167	-	0.167	0.146	-	0.146	0.016	-	0.016	0.003	-	0.003	0.000	-	0.000
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Rubber Tired Dozers	1.0	8.5	0.50	8.0	0.531	0.365	1.543	-	1.543	0.167	-	0.167	0.146	-	0.146	0.016	-	0.016	0.003	-	0.003	0.000	-	0.000
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Plate Compactors	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	Plate Compactors	4.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	Rough Terrain Forklifts	4.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	Pumps	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	Graders	1.0	8.5	0.50	8.0	0.531	0.365	1.543	-	1.543	0.167	-	0.167	0.146	-	0.146	0.016	-	0.016	0.002	-	0.002	0.000	-	0.000
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	Concrete/Industrial Saws	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	Plate Compactors	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	Rough Terrain Forklifts	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	Graders	1.0	8.5	0.50	8.0	0.531	0.365	1.543	-	1.543	0.167	-	0.167	0.146	-	0.146	0.016	-	0.016	0.002	-	0.002	0.000	-	0.000
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	Tractors/Loaders/Backhoes	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	Rubber Tired Dozers	1.0	8.5	0.50	8.0	0.531	0.365	1.543	-	1.543	0.167	-	0.167	0.146	-	0.146	0.016	-	0.016	0.002	-	0.002	0.000	-	0.000
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	Plate Compactors	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	Pavers	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	Rollers	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Graders	1.0	8.5	0.50	8.0	0.531	0.365	1.543	-	1.543	0.167	-	0.167	0.146	-	0.146	0.016	-	0.016	0.013	-	0.013	0.001	-	0.001
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Concrete/Industrial Saws	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Plate Compactors	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Rough Terrain Forklifts	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Rubber Tired Dozers	1.0	8.5	0.50	8.0	0.531	0.365	1.543	-	1.543	0.167	-	0.167	0.146	-	0.146	0.016	-	0.016	0.005	-	0.005	0.001	-	0.001
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Plate Compactors	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Graders	1.0	8.5	0.50	8.0	0.531	0.365	1.543	-	1.543	0.167	-	0.167	0.146	-	0.146	0.016	-	0.016	0.003	-	0.003	0.000	-	0.000
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Rubber Tired Dozers	1.0	8.5	0.50	8.0	0.531	0.365	1.543	-	1.543	0.167	-	0.167	0.146	-	0.146	0.016	-	0.016	0.003	-	0.003	0.000	-	0.000
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Plate Compactors	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	Plate Compactors	4.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	Rough Terrain Forklifts	4.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	Pumps	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 3

Dust Control Reduction 74%

GRADING FUGITIVE DUST (ONSITE)

													Grading EF (lb/VMT)[3]						Daily Emissions (lb/day)[4,5]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	Acres Graded per 8-hr day	Scaling Factor[1]	Acres per day	Daily VMT[2]	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	Graders	1.0	8.5	0.50	8.0	0.531	0.365	1.543	-	1.543	0.167	-	0.167	0.146	-	0.146	0.016	-	0.016	0.002	-	0.002	0.000	-	0.000
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	Concrete/Industrial Saws	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	Plate Compactors	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	Rough Terrain Forklifts	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	Graders	1.0	8.5	0.50	8.0	0.531	0.365	1.543	-	1.543	0.167	-	0.167	0.146	-	0.146	0.016	-	0.016	0.002	-	0.002	0.000	-	0.000
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	Tractors/Loaders/Backhoes	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	Rubber Tired Dozers	1.0	8.5	0.50	8.0	0.531	0.365	1.543	-	1.543	0.167	-	0.167	0.146	-	0.146	0.016	-	0.016	0.002	-	0.002	0.000	-	0.000
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	Plate Compactors	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	Pavers	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	Rollers	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Graders	1.0	8.5	0.50	8.0	0.531	0.365	1.543	-	1.543	0.167	-	0.167	0.146	-	0.146	0.016	-	0.016	0.013	-	0.013	0.001	-	0.001
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Concrete/Industrial Saws	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Plate Compactors	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Rough Terrain Forklifts	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Rubber Tired Dozers	1.0	8.5	0.50	8.0	0.531	0.365	1.543	-	1.543	0.167	-	0.167	0.146	-	0.146	0.016	-	0.016	0.005	-	0.005	0.001	-	0.001
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Plate Compactors	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Graders	1.0	8.5	0.50	8.0	0.531	0.365	1.543	-	1.543	0.167	-	0.167	0.146	-	0.146	0.016	-	0.016	0.003	-	0.003	0.000	-	0.000
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Rubber Tired Dozers	1.0	8.5	0.50	8.0	0.531	0.365	1.543	-	1.543	0.167	-	0.167	0.146	-	0.146	0.016	-	0.016	0.003	-	0.003	0.000	-	0.000
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Plate Compactors	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	Plate Compactors	4.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	Rough Terrain Forklifts	4.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	Pumps	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	Graders	1.0	8.5	0.50	8.0	0.531	0.365	1.543	-	1.543	0.167	-	0.167	0.146	-	0.146	0.016	-	0.016	0.002	-	0.002	0.000	-	0.000
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	Concrete/Industrial Saws	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	Plate Compactors	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	Rough Terrain Forklifts	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	Graders	1.0	8.5	0.50	8.0	0.531	0.365	1.543	-	1.543	0.167	-	0.167	0.146	-	0.146	0.016	-	0.016	0.002	-	0.002	0.000	-	0.000
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	Tractors/Loaders/Backhoes	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	Rubber Tired Dozers	1.0	8.5	0.50	8.0	0.531	0.365	1.543	-	1.543	0.167	-	0.167	0.146	-	0.146	0.016	-	0.016	0.002	-	0.002	0.000	-	0.000
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	Plate Compactors	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	Pavers	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	Rollers	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	Graders	1.0	8.5	0.50	8.0	0.531	0.365	1.543	-	1.543	0.167	-	0.167	0.146	-	0.146	0.016	-	0.016	0.029	-	0.029	0.003	-	0.003
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	Concrete/Industrial Saws	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	Plate Compactors	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	Rough Terrain Forklifts	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Graders	1.0	8.5	0.50	8.0	0.531	0.365	1.543	-	1.543	0.167	-	0.167	0.146	-	0.146	0.016	-	0.016	0.005	-	0.005	0.001	-	0.001
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Concrete/Industrial Saws	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Plate Compactors	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Rough Terrain Forklifts	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	Graders	1.0	8.5	0.50	8.0	0.531	0.365	1.543	-	1.543	0.167	-	0.167	0.146	-	0.146	0.016	-	0.016	0.005	-	0.005	0.001	-	0.001
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	Tractors/Loaders/Backhoes	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	Rubber Tired Dozers	1.0	8.5	0.50	8.0	0.531	0.365	1.543	-	1.543	0.167	-	0.167	0.146	-	0.146	0.016	-	0.016	0.005	-	0.005	0.001	-	0.001
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	Scrapers	2.0	8.5	1.00	8.0	2.125	1.461	1.543	-	1.543	0.167	-	0.167	0.586	-	0.586	0.063	-	0.063	0.019	-	0.019	0.002	-	0.002
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	Plate Compactors	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	Cranes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	Cranes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	Rough Terrain Forklifts	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	Pumps	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	Aerial Lifts	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	Graders	1.0	8.5	0.50	8.0	0.531	0.365	1.543	-	1.543	0.167	-	0.167	0.146	-	0.146	0.016	-	0.016	0.009	-	0.009	0.001	-	0.001
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	Concrete/Industrial Saws	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	Plate Compactors	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	Rough Terrain Forklifts	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	Graders	1.0	8.5	0.50	8.0	0.531	0.365	1.543	-	1.543	0.167	-	0.167	0.146	-	0.146	0.016	-	0.016	0.003	-	0.003	0.000	-	0.000
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	Rubber Tired Dozers	1.0	8.5	0.50	8.0	0.531	0.365	1.543	-	1.543	0.167	-	0.167	0.146	-	0.146	0.016	-	0.016	0.003	-	0.003	0.000	-	0.000
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	Plate Compactors	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	Pavers	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	Rollers	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 3

Dust Control Reduction 74%

GRADING FUGITIVE DUST (ONSITE)

													Grading EF (lb/VMT)[3]						Daily Emissions (lb/day)[4,5]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	Acres Graded per 8-hr day	Scaling Factor[1]	Acres per day	Daily VMT[2]	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Graders	1.0	8.5	0.50	8.0	0.531	0.365	1.543	-	1.543	0.167	-	0.167	0.146	-	0.146	0.016	-	0.016	0.008	-	0.008	0.001	-	0.001
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Concrete/Industrial Saws	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Plate Compactors	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Rough Terrain Forklifts	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Pavers	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Rollers	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Bore/Drill Rigs	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Graders	1.0	8.5	0.50	8.0	0.531	0.365	1.543	-	1.543	0.167	-	0.167	0.146	-	0.146	0.016	-	0.016	0.011	-	0.011	0.001	-	0.001
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Concrete/Industrial Saws	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Plate Compactors	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Rough Terrain Forklifts	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Pavers	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Rollers	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Bore/Drill Rigs	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Graders	1.0	8.5	0.50	8.0	0.531	0.365	1.543	-	1.543	0.167	-	0.167	0.146	-	0.146	0.016	-	0.016	0.008	-	0.008	0.001	-	0.001
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Concrete/Industrial Saws	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Plate Compactors	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Rough Terrain Forklifts	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Pavers	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Rollers	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Bore/Drill Rigs	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Graders	1.0	8.5	0.50	8.0	0.531	0.365	1.543	-	1.543	0.167	-	0.167	0.146	-	0.146	0.016	-	0.016	0.011	-	0.011	0.001	-	0.001
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Concrete/Industrial Saws	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Plate Compactors	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Rough Terrain Forklifts	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Pavers	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Rollers	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Bore/Drill Rigs	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	Graders	1.0	8.5	0.50	8.0	0.531	0.365	1.543	-	1.543	0.167	-	0.167	0.146	-	0.146	0.016	-	0.016	0.029	-	0.029	0.003	-	0.003
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	Concrete/Industrial Saws	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	Plate Compactors	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	Rough Terrain Forklifts	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	Excavators	4.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	Tractors/Loaders/Backhoes	4.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	Rubber Tired Dozers	4.0	8.5	0.50	8.0	2.125	1.461	1.543	-	1.543	0.167	-	0.167	0.586	-	0.586	0.063	-	0.063	0.064	-	0.064	0.007	-	0.007
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	Plate Compactors	4.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	Excavators	4.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	Graders	4.0	8.5	0.50	8.0	2.125	1.461	1.543	-	1.543	0.167	-	0.167	0.586	-	0.586	0.063	-	0.063	0.058	-	0.058	0.006	-	0.006
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	Tractors/Loaders/Backhoes	4.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	Rubber Tired Dozers	8.0	8.5	0.50	8.0	4.250	2.922	1.543	-	1.543	0.167	-	0.167	1.172	-	1.172	0.127	-	0.127	0.115	-	0.115	0.012	-	0.012
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	Scrapers	4.0	8.5	1.00	8.0	4.250	2.922	1.543	-	1.543	0.167	-	0.167	1.172	-	1.172	0.127	-	0.127	0.115	-	0.115	0.012	-	0.012
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	Plate Compactors	4.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	Plate Compactors	4.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	Rough Terrain Forklifts	4.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	Pavers	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	Graders	1.0	8.5	0.50	8.0	0.531	0.365	1.543	-	1.543	0.167	-	0.167	0.146	-	0.146	0.016	-	0.016	0.010	-	0.010	0.001	-	0.001
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	Concrete/Industrial Saws	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	Plate Compactors	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	Rough Terrain Forklifts	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	Graders	1.0	8.5	0.50	8.0	0.531	0.365	1.543	-	1.543	0.167	-	0.167	0.146	-	0.146	0.016	-	0.016	0.008	-	0.008	0.001	-	0.001
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	Tractors/Loaders/Backhoes	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	Rubber Tired Dozers	1.0	8.5	0.50	8.0	0.531	0.365	1.543	-	1.543	0.167	-	0.167	0.146	-	0.146	0.016	-	0.016	0.008	-	0.008	0.001	-	0.001
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	Scrapers	2.0	8.5	1.00	8.0	2.125	1.461	1.543	-	1.543	0.167	-	0.167	0.586	-	0.586	0.063	-	0.063	0.032	-	0.032	0.003	-	0.003
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	Plate Compactors	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	Cranes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	Cranes	4.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	Cranes	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	Rough Terrain Forklifts	4.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	Tractors/Loaders/Backhoes	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	Pumps	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	Aerial Lifts	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 3

Dust Control Reduction 74%

GRADING FUGITIVE DUST (ONSITE)

												Grading EF (lb/VMT)[3]						Daily Emissions (lb/day)[4,5]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	Acres Graded per 8-hr day	Scaling Factor[1]	Acres per day	Daily VMT[2]	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	Excavators	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	Graders	1.0	8.5	0.50	8.0	0.531	0.365	1.543	-	1.543	0.167	-	0.167	0.146	-	0.146	0.016	-	0.016	0.003	-	0.003	0.000	-	0.000
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	Tractors/Loaders/Backhoes	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	Concrete/Industrial Saws	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	Plate Compactors	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	Rough Terrain Forklifts	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	Graders	1.0	8.5	0.50	8.0	0.531	0.365	1.543	-	1.543	0.167	-	0.167	0.146	-	0.146	0.016	-	0.016	0.005	-	0.005	0.001	-	0.001
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	Tractors/Loaders/Backhoes	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	Rubber Tired Dozers	1.0	8.5	0.50	8.0	0.531	0.365	1.543	-	1.543	0.167	-	0.167	0.146	-	0.146	0.016	-	0.016	0.005	-	0.005	0.001	-	0.001
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	Plate Compactors	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	Pavers	1.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	Rollers	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	Cranes	4.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	Rough Terrain Forklifts	2.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	Pumps	4.0	8.5	-	8.0	-	-	1.543	-	1.543	0.167	-	0.167	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

1. CalEEMod provides the amount of acres that can be graded per 8-hours. The scaling factor is included in case equipment would operate more or less than 8 hours, thus, the amount of area to be graded would be adjusted.
2. Grading VMT based on methodology from CalEEMod which accounts for bladewidth of grading equipment and the amount of area grading equipment can complete in 8-hour day.
3. Emission factor based on CalEEMod default value.
4. Emissions account for dust control reduction from water application 3 times per day.
5. Grading emissions are only calculated for the following equipment types: Crawler Tractors, Graders, Rubber Tired Dozers, and Scrapers. This approach is consistent with CalEEMod methodology.

FD = Fugitive Dust

EXH = Exhaust

Sepulveda Transit Corridor Project - ALTERNATIVE 3

WORKER VEHICLES (OFFSITE)

											Running Emission Factor (g/mile)[1,2]													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Workers per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Worker	10	20	18.5	0.02	0.07	0.99	0.00	0.32	0.001	0.32	0.08	0.00	0.08	318.17	0.00	0.01
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Worker	10	20	18.5	0.01	0.06	0.94	0.00	0.32	0.001	0.32	0.08	0.00	0.08	315.30	0.00	0.01
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Worker	88	176	18.5	0.01	0.05	0.83	0.00	0.32	0.001	0.32	0.08	0.00	0.08	310.19	0.00	0.01
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Worker	12	24	18.5	0.01	0.04	0.72	0.00	0.32	0.001	0.32	0.08	0.00	0.08	304.03	0.00	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Worker	8	16	18.5	0.01	0.04	0.69	0.00	0.32	0.001	0.32	0.08	0.00	0.08	302.42	0.00	0.00
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	2029	Worker	10	20	18.5	0.02	0.07	0.99	0.00	0.32	0.001	0.32	0.08	0.00	0.08	318.17	0.00	0.01
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	2030	Worker	10	20	18.5	0.01	0.06	0.94	0.00	0.32	0.001	0.32	0.08	0.00	0.08	315.30	0.00	0.01
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	2032	Worker	18	36	18.5	0.01	0.05	0.83	0.00	0.32	0.001	0.32	0.08	0.00	0.08	310.19	0.00	0.01
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	2033	Worker	14	28	18.5	0.01	0.05	0.79	0.00	0.32	0.001	0.32	0.08	0.00	0.08	307.92	0.00	0.00
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	2035	Worker	14	28	18.5	0.01	0.04	0.72	0.00	0.32	0.001	0.32	0.08	0.00	0.08	304.03	0.00	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Worker	10	20	18.5	0.02	0.07	0.99	0.00	0.32	0.001	0.32	0.08	0.00	0.08	318.17	0.00	0.01
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparatic	7/1/2030	12/31/2032	5	655	10	2030	Worker	10	20	18.5	0.01	0.06	0.94	0.00	0.32	0.001	0.32	0.08	0.00	0.08	315.30	0.00	0.01
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations	6/1/2032	10/31/2033	5	370	10	2032	Worker	18	36	18.5	0.01	0.05	0.83	0.00	0.32	0.001	0.32	0.08	0.00	0.08	310.19	0.00	0.01
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Ass	11/1/2033	11/30/2033	5	22	10	2033	Worker	14	28	18.5	0.01	0.05	0.79	0.00	0.32	0.001	0.32	0.08	0.00	0.08	307.92	0.00	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	2033	Worker	14	28	18.5	0.01	0.05	0.79	0.00	0.32	0.001	0.32	0.08	0.00	0.08	307.92	0.00	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Worker	10	20	18.5	0.02	0.07	0.99	0.00	0.32	0.001	0.32	0.08	0.00	0.08	318.17	0.00	0.01
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Worker	10	20	18.5	0.01	0.06	0.94	0.00	0.32	0.001	0.32	0.08	0.00	0.08	315.30	0.00	0.01
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CII	8/1/2032	5/31/2033	5	217	10	2032	Worker	26	52	18.5	0.01	0.05	0.83	0.00	0.32	0.001	0.32	0.08	0.00	0.08	310.19	0.00	0.01
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assem	5/1/2033	10/31/2033	5	131	10	2033	Worker	12	24	18.5	0.01	0.05	0.79	0.00	0.32	0.001	0.32	0.08	0.00	0.08	307.92	0.00	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Worker	8	16	18.5	0.01	0.05	0.79	0.00	0.32	0.001	0.32	0.08	0.00	0.08	307.92	0.00	0.00
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Worker	10	20	18.5	0.02	0.07	0.99	0.00	0.32	0.001	0.32	0.08	0.00	0.08	318.17	0.00	0.01
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Worker	10	20	18.5	0.01	0.06	0.88	0.00	0.32	0.001	0.32	0.08	0.00	0.08	312.62	0.00	0.01
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Worker	14	28	18.5	0.01	0.05	0.83	0.00	0.32	0.001	0.32	0.08	0.00	0.08	310.19	0.00	0.01
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Worker	12	24	18.5	0.01	0.05	0.79	0.00	0.32	0.001	0.32	0.08	0.00	0.08	307.92	0.00	0.00
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Worker	8	16	18.5	0.01	0.05	0.79	0.00	0.32	0.001	0.32	0.08	0.00	0.08	307.92	0.00	0.00
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Worker	10	20	18.5	0.02	0.07	0.99	0.00	0.32	0.001	0.32	0.08	0.00	0.08	318.17	0.00	0.01
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Worker	10	20	18.5	0.01	0.06	0.88	0.00	0.32	0.001	0.32	0.08	0.00	0.08	312.62	0.00	0.01
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Worker	14	28	18.5	0.01	0.05	0.83	0.00	0.32	0.001	0.32	0.08	0.00	0.08	310.19	0.00	0.01
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Worker	12	24	18.5	0.01	0.05	0.79	0.00	0.32	0.001	0.32	0.08	0.00	0.08	307.92	0.00	0.00
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Worker	8	16	18.5	0.01	0.05	0.79	0.00	0.32	0.001	0.32	0.08	0.00	0.08	307.92	0.00	0.00
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Worker	10	20	18.5	0.02	0.07	0.99	0.00	0.32	0.001	0.32	0.08	0.00	0.08	318.17	0.00	0.01
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Worker	10	20	18.5	0.01	0.06	0.88	0.00	0.32	0.001	0.32	0.08	0.00	0.08	312.62	0.00	0.01
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Worker	14	28	18.5	0.01	0.05	0.83	0.00	0.32	0.001	0.32	0.08	0.00	0.08	310.19	0.00	0.01
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Worker	12	24	18.5	0.01	0.04	0.75	0.00	0.32	0.001	0.32	0.08	0.00	0.08	305.85	0.00	0.00
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Worker	8	16	18.5	0.01	0.04	0.75	0.00	0.32	0.001	0.32	0.08	0.00	0.08	305.85	0.00	0.00
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Worker	10	20	18.5	0.02	0.07	0.99	0.00	0.32	0.001	0.32	0.08	0.00	0.08	318.17	0.00	0.01
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Worker	10	20	18.5	0.01	0.06	0.88	0.00	0.32	0.001	0.32	0.08	0.00	0.08	312.62	0.00	0.01
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Worker	14	28	18.5	0.01	0.05	0.83	0.00	0.32	0.001	0.32	0.08	0.00	0.08	310.19	0.00	0.01
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Worker	12	24	18.5	0.01	0.05	0.79	0.00	0.32	0.001	0.32	0.08	0.00	0.08	307.92	0.00	0.00
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Worker	8	16	18.5	0.01	0.05	0.79	0.00	0.32	0.001	0.32	0.08	0.00	0.08	307.92	0.00	0.00
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Worker	10	20	18.5	0.02	0.07	0.99	0.00	0.32	0.001	0.32	0.08	0.00	0.08	318.17	0.00	0.01
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Worker	10	20	18.5	0.01	0.06	0.88	0.00	0.32	0.001	0.32	0.08	0.00	0.08	312.62	0.00	0.01
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Worker	14	28	18.5	0.01	0.05	0.83	0.00	0.32	0.001	0.32	0.08	0.00	0.08	310.19	0.00	0.01
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Worker	12	24	18.5	0.01	0.05	0.79	0.00	0.32	0.001	0.32	0.08	0.00	0.08	307.92	0.00	0.00
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Worker	8	16	18.5	0.01	0.05	0.79	0.00	0.32	0.001	0.32	0.08	0.00	0.08	307.92	0.00	0.00
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Worker	10	20	18.5	0.02	0.07	0.99	0.00	0.32	0.001	0.32	0.08	0.00	0.08	318.17	0.00	0.01
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Worker	10	20	18.5	0.01	0.06	0.94	0.00	0.32	0.001	0.32	0.08	0.00	0.08	315.30	0.00	0.01
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Worker	14	28	18.5	0.01	0.05	0.83	0.00	0.32	0.001	0.32	0.08	0.00	0.08	310.19	0.00	0.01
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Worker	12	24	18.5	0.01	0.04	0.75	0.00	0.32	0.001	0.32	0.08	0.00	0.08	305.85	0.00	0.00
UCLA Gateway MRT Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Worker	8	16	18.5	0.01	0.04	0.69	0.00	0.32	0.001	0.32	0.08	0.00	0.08	302.42	0.00	0.00
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Worker	10	20	18.5	0.02	0.07	0.99	0.00	0.32	0.001	0.32	0.08	0.00	0.08	318.17	0.00	0.01
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Worker	10	20	18.5	0.01	0.06	0.94	0.00	0.32	0.001	0.32	0.08	0.00	0.08	315.30	0.00	0.01
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Worker	14	28	18.5	0.01	0.05	0.83	0.00	0.32	0.001	0.32	0.08	0.00	0.08	310.19	0.00	0.01
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Worker	12	24	18.5	0.01	0.04	0.75	0.00	0.32	0.001	0.32	0.08	0.00	0.08	305.85	0.00	0.00
Wilshire Blvd-Metro D Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Worker	8	16	18.5	0.01	0.04	0.69	0.00	0.32	0.001	0.32	0.08	0.00	0.08	302.42	0.00	0.00
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Worker	10	20	18.5	0.02	0.07	0.99	0.00	0.32	0.001	0.32	0.08	0.00	0.08	318.17	0.00	0.01
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Worker	10	20	18.5	0.01	0.06	0.88	0.00	0.32	0.001	0.32	0.08	0.00	0.08	312.62	0.00	0.01
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Worker	14	28	18.5	0.01	0.05	0.83	0.00	0.32	0.001	0.32	0.08	0.00	0.08	310.19	0.00	0.01
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Worker	12	24	18.5	0.01	0.05	0.79	0.00	0.32	0.001	0.32	0.08	0.00	0.08	307.92	0.00	0.00
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Worker	8	16	18.5	0.01	0.05	0.79	0.00	0.32	0.001	0.32	0.08	0.00	0.08	307.92	0.00	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 3

WORKER VEHICLES (OFFSITE)

											Non-Running Emission Factor (g/trip)[1,3]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Workers per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Worker	10	20	18.5	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.32	0.07	0.03
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Worker	10	20	18.5	1.13	0.26	3.06	0.001	-	0.002	0.002	-	0.002	0.002	77.32	0.06	0.03
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Worker	88	176	18.5	1.02	0.24	2.73	0.001	-	0.002	0.002	-	0.002	0.002	75.47	0.06	0.03
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Worker	12	24	18.5	0.91	0.21	2.33	0.001	-	0.001	0.001	-	0.001	0.001	73.14	0.05	0.03
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Worker	8	16	18.5	0.89	0.21	2.23	0.001	-	0.001	0.001	-	0.001	0.001	72.48	0.05	0.03
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	2029	Worker	10	20	18.5	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.32	0.07	0.03
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	2030	Worker	10	20	18.5	1.13	0.26	3.06	0.001	-	0.002	0.002	-	0.002	0.002	77.32	0.06	0.03
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	2032	Worker	18	36	18.5	1.02	0.24	2.73	0.001	-	0.002	0.002	-	0.002	0.002	75.47	0.06	0.03
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	2033	Worker	14	28	18.5	0.98	0.23	2.59	0.001	-	0.002	0.002	-	0.002	0.002	74.65	0.05	0.03
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	2035	Worker	14	28	18.5	0.91	0.21	2.33	0.001	-	0.001	0.001	-	0.001	0.001	73.14	0.05	0.03
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Worker	10	20	18.5	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.32	0.07	0.03
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparatic	7/1/2030	12/31/2032	5	655	10	2030	Worker	10	20	18.5	1.13	0.26	3.06	0.001	-	0.002	0.002	-	0.002	0.002	77.32	0.06	0.03
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations	6/1/2032	10/31/2033	5	370	10	2032	Worker	18	36	18.5	1.02	0.24	2.73	0.001	-	0.002	0.002	-	0.002	0.002	75.47	0.06	0.03
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Ass	11/1/2033	11/30/2033	5	22	10	2033	Worker	14	28	18.5	0.98	0.23	2.59	0.001	-	0.002	0.002	-	0.002	0.002	74.65	0.05	0.03
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	2033	Worker	14	28	18.5	0.98	0.23	2.59	0.001	-	0.002	0.002	-	0.002	0.002	74.65	0.05	0.03
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Worker	10	20	18.5	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.32	0.07	0.03
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Worker	10	20	18.5	1.13	0.26	3.06	0.001	-	0.002	0.002	-	0.002	0.002	77.32	0.06	0.03
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CII	8/1/2032	5/31/2033	5	217	10	2032	Worker	26	52	18.5	1.02	0.24	2.73	0.001	-	0.002	0.002	-	0.002	0.002	75.47	0.06	0.03
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assem	5/1/2033	10/31/2033	5	131	10	2033	Worker	12	24	18.5	0.98	0.23	2.59	0.001	-	0.002	0.002	-	0.002	0.002	74.65	0.05	0.03
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Worker	8	16	18.5	0.98	0.23	2.59	0.001	-	0.002	0.002	-	0.002	0.002	74.65	0.05	0.03
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Worker	10	20	18.5	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.32	0.07	0.03
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Worker	10	20	18.5	1.07	0.25	2.88	0.001	-	0.002	0.002	-	0.002	0.002	76.36	0.06	0.03
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Worker	14	28	18.5	1.02	0.24	2.73	0.001	-	0.002	0.002	-	0.002	0.002	75.47	0.06	0.03
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Worker	12	24	18.5	0.98	0.23	2.59	0.001	-	0.002	0.002	-	0.002	0.002	74.65	0.05	0.03
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Worker	8	16	18.5	0.98	0.23	2.59	0.001	-	0.002	0.002	-	0.002	0.002	74.65	0.05	0.03
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Worker	10	20	18.5	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.32	0.07	0.03
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Worker	10	20	18.5	1.07	0.25	2.88	0.001	-	0.002	0.002	-	0.002	0.002	76.36	0.06	0.03
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Worker	14	28	18.5	1.02	0.24	2.73	0.001	-	0.002	0.002	-	0.002	0.002	75.47	0.06	0.03
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Worker	12	24	18.5	0.98	0.23	2.59	0.001	-	0.002	0.002	-	0.002	0.002	74.65	0.05	0.03
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Worker	8	16	18.5	0.98	0.23	2.59	0.001	-	0.002	0.002	-	0.002	0.002	74.65	0.05	0.03
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Worker	10	20	18.5	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.32	0.07	0.03
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Worker	10	20	18.5	1.07	0.25	2.88	0.001	-	0.002	0.002	-	0.002	0.002	76.36	0.06	0.03
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Worker	14	28	18.5	1.02	0.24	2.73	0.001	-	0.002	0.002	-	0.002	0.002	75.47	0.06	0.03
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Worker	12	24	18.5	0.92	0.22	2.45	0.001	-	0.002	0.002	-	0.001	0.001	73.85	0.05	0.03
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Worker	8	16	18.5	0.92	0.22	2.45	0.001	-	0.002	0.002	-	0.001	0.001	73.85	0.05	0.03
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Worker	10	20	18.5	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.32	0.07	0.03
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Worker	10	20	18.5	1.07	0.25	2.88	0.001	-	0.002	0.002	-	0.002	0.002	76.36	0.06	0.03
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Worker	14	28	18.5	1.02	0.24	2.73	0.001	-	0.002	0.002	-	0.002	0.002	75.47	0.06	0.03
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Worker	12	24	18.5	0.98	0.23	2.59	0.001	-	0.002	0.002	-	0.002	0.002	74.65	0.05	0.03
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Worker	8	16	18.5	0.98	0.23	2.59	0.001	-	0.002	0.002	-	0.002	0.002	74.65	0.05	0.03
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Worker	10	20	18.5	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.32	0.07	0.03
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Worker	10	20	18.5	1.07	0.25	2.88	0.001	-	0.002	0.002	-	0.002	0.002	76.36	0.06	0.03
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Worker	14	28	18.5	1.02	0.24	2.73	0.001	-	0.002	0.002	-	0.002	0.002	75.47	0.06	0.03
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Worker	12	24	18.5	0.98	0.23	2.59	0.001	-	0.002	0.002	-	0.002	0.002	74.65	0.05	0.03
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Worker	8	16	18.5	0.98	0.23	2.59	0.001	-	0.002	0.002	-	0.002	0.002	74.65	0.05	0.03
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Worker	10	20	18.5	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.32	0.07	0.03
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Worker	10	20	18.5	1.13	0.26	3.06	0.001	-	0.002	0.002	-	0.002	0.002	77.32	0.06	0.03
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Worker	14	28	18.5	1.02	0.24	2.73	0.001	-	0.002	0.002	-	0.002	0.002	75.47	0.06	0.03
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Worker	12	24	18.5	0.92	0.22	2.45	0.001	-	0.002	0.002	-	0.001	0.001	73.85	0.05	0.03
UCLA Gateway MRT Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Worker	8	16	18.5	0.89	0.21	2.23	0.001	-	0.001	0.001	-	0.001	0.001	72.48	0.05	0.03
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Worker	10	20	18.5	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.32	0.07	0.03
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Worker	10	20	18.5	1.13	0.26	3.06	0.001	-	0.002	0.002	-	0.002	0.002	77.32	0.06	0.03
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Worker	14	28	18.5	1.02	0.24	2.73	0.001	-	0.002	0.002	-	0.002	0.002	75.47	0.06	0.03
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Worker	12	24	18.5	0.92	0.22	2.45	0.001	-	0.002	0.002	-	0.001	0.001	73.85	0.05	0.03
Wilshire Blvd-Metro D Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Worker	8	16	18.5	0.89	0.21	2.23	0.001	-	0.001	0.001	-	0.001	0.001	72.48	0.05	0.03
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Worker	10	20	18.5	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.32	0.07	0.03
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Worker	10	20	18.5	1.07	0.25	2.88	0.001	-	0.002	0.002	-	0.002	0.002	76.36	0.06	0.03
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Worker	14	28	18.5	1.02	0.24	2.73	0.001	-	0.002	0.002	-	0.002	0.002	75.47	0.06	0.03
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Worker	12	24	18.5	0.98	0.23	2.59	0.001	-	0.002	0.002	-	0.002	0.002	74.65	0.05	0.03
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Worker	8	16	18.5	0.98	0.23	2.59	0.001	-	0.002	0.002	-	0.002	0.002	74.65	0.05	0.03

Sepulveda Transit Corridor Project - ALTERNATIVE 3

WORKER VEHICLES (OFFSITE)

											Daily Emissions (lb/day)												
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Hours per Workday**	**EF Year**	**Trip Type**	**Workers per Day**	**Total One-Way Trips per Day**	**One-Way Trip Length (mi)**	**ROG**	**NO_X**	**CO**	**SO_X**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**	**CO_2**	**CH_4**	**N_2O**
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Worker	10	20	18.5	0.07	0.07	0.95	0.00	0.26	0.00	0.26	0.07	0.00	0.07	263.0	0.01	0.01
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Worker	10	20	18.5	0.06	0.06	0.90	0.00	0.26	0.00	0.26	0.07	0.00	0.07	260.6	0.01	0.01
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Worker	88	176	18.5	0.48	0.46	7.04	0.02	2.28	0.01	2.29	0.58	0.01	0.59	2255.9	0.04	0.05
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Worker	12	24	18.5	0.06	0.05	0.83	0.00	0.31	0.00	0.31	0.08	0.00	0.08	301.5	0.00	0.01
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Worker	8	16	18.5	0.04	0.03	0.53	0.00	0.21	0.00	0.21	0.05	0.00	0.05	199.9	0.00	0.00
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	2029	Worker	10	20	18.5	0.07	0.07	0.95	0.00	0.26	0.00	0.26	0.07	0.00	0.07	263.0	0.01	0.01
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	2030	Worker	10	20	18.5	0.06	0.06	0.90	0.00	0.26	0.00	0.26	0.07	0.00	0.07	260.6	0.01	0.01
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	2032	Worker	18	36	18.5	0.10	0.09	1.44	0.00	0.47	0.00	0.47	0.12	0.00	0.12	461.4	0.01	0.01
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	2033	Worker	14	28	18.5	0.07	0.07	1.07	0.00	0.36	0.00	0.36	0.09	0.00	0.09	356.2	0.01	0.01
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	2035	Worker	14	28	18.5	0.07	0.06	0.97	0.00	0.36	0.00	0.36	0.09	0.00	0.09	351.7	0.01	0.01
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Worker	10	20	18.5	0.07	0.07	0.95	0.00	0.26	0.00	0.26	0.07	0.00	0.07	263.0	0.01	0.01
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparatic	7/1/2030	12/31/2032	5	655	10	2030	Worker	10	20	18.5	0.06	0.06	0.90	0.00	0.26	0.00	0.26	0.07	0.00	0.07	260.6	0.01	0.01
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations	6/1/2032	10/31/2033	5	370	10	2032	Worker	18	36	18.5	0.10	0.09	1.44	0.00	0.47	0.00	0.47	0.12	0.00	0.12	461.4	0.01	0.01
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Ass	11/1/2033	11/30/2033	5	22	10	2033	Worker	14	28	18.5	0.07	0.07	1.07	0.00	0.36	0.00	0.36	0.09	0.00	0.09	356.2	0.01	0.01
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	2033	Worker	14	28	18.5	0.07	0.07	1.07	0.00	0.36	0.00	0.36	0.09	0.00	0.09	356.2	0.01	0.01
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Worker	10	20	18.5	0.07	0.07	0.95	0.00	0.26	0.00	0.26	0.07	0.00	0.07	263.0	0.01	0.01
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Worker	10	20	18.5	0.06	0.06	0.90	0.00	0.26	0.00	0.26	0.07	0.00	0.07	260.6	0.01	0.01
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CII	8/1/2032	5/31/2033	5	217	10	2032	Worker	26	52	18.5	0.14	0.13	2.08	0.01	0.67	0.00	0.68	0.17	0.00	0.17	666.5	0.01	0.01
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assem	5/1/2033	10/31/2033	5	131	10	2033	Worker	12	24	18.5	0.06	0.06	0.91	0.00	0.31	0.00	0.31	0.08	0.00	0.08	305.4	0.01	0.01
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Worker	8	16	18.5	0.04	0.04	0.61	0.00	0.21	0.00	0.21	0.05	0.00	0.05	203.6	0.00	0.00
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Worker	10	20	18.5	0.07	0.07	0.95	0.00	0.26	0.00	0.26	0.07	0.00	0.07	263.0	0.01	0.01
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Worker	10	20	18.5	0.06	0.06	0.85	0.00	0.26	0.00	0.26	0.07	0.00	0.07	258.4	0.01	0.01
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Worker	14	28	18.5	0.08	0.07	1.12	0.00	0.36	0.00	0.36	0.09	0.00	0.09	358.9	0.01	0.01
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Worker	12	24	18.5	0.06	0.06	0.91	0.00	0.31	0.00	0.31	0.08	0.00	0.08	305.4	0.01	0.01
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Worker	8	16	18.5	0.04	0.04	0.61	0.00	0.21	0.00	0.21	0.05	0.00	0.05	203.6	0.00	0.00
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Worker	10	20	18.5	0.07	0.07	0.95	0.00	0.26	0.00	0.26	0.07	0.00	0.07	263.0	0.01	0.01
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Worker	10	20	18.5	0.06	0.06	0.85	0.00	0.26	0.00	0.26	0.07	0.00	0.07	258.4	0.01	0.01
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Worker	14	28	18.5	0.08	0.07	1.12	0.00	0.36	0.00	0.36	0.09	0.00	0.09	358.9	0.01	0.01
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Worker	12	24	18.5	0.06	0.06	0.91	0.00	0.31	0.00	0.31	0.08	0.00	0.08	305.4	0.01	0.01
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Worker	8	16	18.5	0.04	0.04	0.61	0.00	0.21	0.00	0.21	0.05	0.00	0.05	203.6	0.00	0.00
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Worker	10	20	18.5	0.07	0.07	0.95	0.00	0.26	0.00	0.26	0.07	0.00	0.07	263.0	0.01	0.01
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Worker	10	20	18.5	0.06	0.06	0.85	0.00	0.26	0.00	0.26	0.07	0.00	0.07	258.4	0.01	0.01
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Worker	14	28	18.5	0.08	0.07	1.12	0.00	0.36	0.00	0.36	0.09	0.00	0.09	358.9	0.01	0.01
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Worker	12	24	18.5	0.06	0.05	0.87	0.00	0.31	0.00	0.31	0.08	0.00	0.08	303.3	0.01	0.01
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Worker	8	16	18.5	0.04	0.03	0.58	0.00	0.21	0.00	0.21	0.05	0.00	0.05	202.2	0.00	0.00
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Worker	10	20	18.5	0.07	0.07	0.95	0.00	0.26	0.00	0.26	0.07	0.00	0.07	263.0	0.01	0.01
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Worker	10	20	18.5	0.06	0.06	0.85	0.00	0.26	0.00	0.26	0.07	0.00	0.07	258.4	0.01	0.01
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Worker	14	28	18.5	0.08	0.07	1.12	0.00	0.36	0.00	0.36	0.09	0.00	0.09	358.9	0.01	0.01
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Worker	12	24	18.5	0.06	0.06	0.91	0.00	0.31	0.00	0.31	0.08	0.00	0.08	305.4	0.01	0.01
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Worker	8	16	18.5	0.04	0.04	0.61	0.00	0.21	0.00	0.21	0.05	0.00	0.05	203.6	0.00	0.00
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Worker	10	20	18.5	0.07	0.07	0.95	0.00	0.26	0.00	0.26	0.07	0.00	0.07	263.0	0.01	0.01
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Worker	10	20	18.5	0.06	0.06	0.85	0.00	0.26	0.00	0.26	0.07	0.00	0.07	258.4	0.01	0.01
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Worker	14	28	18.5	0.08	0.07	1.12	0.00	0.36	0.00	0.36	0.09	0.00	0.09	358.9	0.01	0.01
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Worker	12	24	18.5	0.06	0.06	0.91	0.00	0.31	0.00	0.31	0.08	0.00	0.08	305.4	0.01	0.01
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Worker	8	16	18.5	0.04	0.04	0.61	0.00	0.21	0.00	0.21	0.05	0.00	0.05	203.6	0.00	0.00
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Worker	10	20	18.5	0.07	0.07	0.95	0.00	0.26	0.00	0.26	0.07	0.00	0.07	263.0	0.01	0.01
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Worker	10	20	18.5	0.06	0.06	0.90	0.00	0.26	0.00	0.26	0.07	0.00	0.07	260.6	0.01	0.01
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Worker	14	28	18.5	0.08	0.07	1.12	0.00	0.36	0.00	0.36	0.09	0.00	0.09	358.9	0.01	0.01
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Worker	12	24	18.5	0.06	0.05	0.87	0.00	0.31	0.00	0.31	0.08	0.00	0.08	303.3	0.01	0.01
UCLA Gateway MRT Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Worker	8	16	18.5	0.04	0.03	0.53	0.00	0.21	0.00	0.21	0.05	0.00	0.05	199.9	0.00	0.00
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Worker	10	20	18.5	0.07	0.07	0.95	0.00	0.26	0.00	0.26	0.07	0.00	0.07	263.0	0.01	0.01
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Worker	10	20	18.5	0.06	0.06	0.90	0.00	0.26	0.00	0.26	0.07	0.00	0.07	260.6	0.01	0.01
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Worker	14	28	18.5	0.08	0.07	1.12	0.00	0.36	0.00	0.36	0.09	0.00	0.09	358.9	0.01	0.01
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Worker	12	24	18.5	0.06	0.05	0.87	0.00	0.31	0.00	0.31	0.08	0.00	0.08	303.3	0.01	0.01
Wilshire Blvd-Metro D Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Worker	8	16	18.5	0.04	0.03	0.53	0.00	0.21	0.00	0.21	0.05	0.00	0.05	199.9	0.00	0.00
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Worker	10	20	18.5	0.07	0.07	0.95	0.00	0.26	0.00	0.26	0.07	0.00	0.07	263.0	0.01	0.01
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Worker	10	20	18.5	0.06	0.06	0.85	0.00	0.26	0.00	0.26	0.07	0.00	0.07	258.4	0.01	0.01
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Worker	14	28	18.5	0.08	0.07	1.12	0.00	0.36	0.00	0.36	0.09	0.00	0.09	358.9	0.01	0.01
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Worker	12	24	18.5	0.06	0.06	0.91	0.00	0.31	0.00	0.31	0.08	0.00	0.08	305.4	0.01	0.01
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Worker	8	16	18.5	0.04	0.04	0.61	0.00	0.21	0.00	0.21	0.05	0.00	0.05	203.6	0.00	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 3

WORKER VEHICLES (OFFSITE)

											Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Workers per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Worker	10	20	18.5	0.03	0.04	0.50	0.00	0.14	0.00	0.14	0.03	0.00	0.03	124.7	0.00	0.00	125.6
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Worker	10	20	18.5	0.02	0.02	0.29	0.00	0.08	0.00	0.09	0.02	0.00	0.02	77.4	0.00	0.00	78.0
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Worker	88	176	18.5	0.20	0.19	2.98	0.01	0.97	0.00	0.97	0.24	0.00	0.25	866.7	0.02	0.02	872.7
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Worker	12	24	18.5	0.00	0.00	0.07	0.00	0.03	0.00	0.03	0.01	0.00	0.01	23.8	0.00	0.00	23.9
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Worker	8	16	18.5	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.0	0.00	0.00	4.0
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	2029	Worker	10	20	18.5	0.03	0.04	0.50	0.00	0.14	0.00	0.14	0.03	0.00	0.03	124.7	0.00	0.00	125.6
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	2030	Worker	10	20	18.5	0.02	0.02	0.29	0.00	0.08	0.00	0.09	0.02	0.00	0.02	77.4	0.00	0.00	78.0
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	2032	Worker	18	36	18.5	0.01	0.01	0.11	0.00	0.04	0.00	0.04	0.01	0.00	0.01	32.2	0.00	0.00	32.5
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	2033	Worker	14	28	18.5	0.02	0.02	0.36	0.00	0.12	0.00	0.12	0.03	0.00	0.03	108.6	0.00	0.00	109.3
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	2035	Worker	14	28	18.5	0.01	0.01	0.20	0.00	0.07	0.00	0.08	0.02	0.00	0.02	65.9	0.00	0.00	66.3
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Worker	10	20	18.5	0.03	0.04	0.50	0.00	0.14	0.00	0.14	0.03	0.00	0.03	124.7	0.00	0.00	125.6
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparatic	7/1/2030	12/31/2032	5	655	10	2030	Worker	10	20	18.5	0.02	0.02	0.29	0.00	0.08	0.00	0.09	0.02	0.00	0.02	77.4	0.00	0.00	78.0
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations	6/1/2032	10/31/2033	5	370	10	2032	Worker	18	36	18.5	0.02	0.02	0.27	0.00	0.09	0.00	0.09	0.02	0.00	0.02	77.4	0.00	0.00	78.0
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Ass	11/1/2033	11/30/2033	5	22	10	2033	Worker	14	28	18.5	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.6	0.00	0.00	3.6
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	2033	Worker	14	28	18.5	0.00	0.00	0.02	0.00	0.01	0.00	0.01	0.00	0.00	0.00	7.1	0.00	0.00	7.2
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Worker	10	20	18.5	0.03	0.04	0.50	0.00	0.14	0.00	0.14	0.03	0.00	0.03	124.7	0.00	0.00	125.6
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Worker	10	20	18.5	0.02	0.02	0.29	0.00	0.08	0.00	0.09	0.02	0.00	0.02	77.4	0.00	0.00	78.0
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CII	8/1/2032	5/31/2033	5	217	10	2032	Worker	26	52	18.5	0.02	0.01	0.23	0.00	0.07	0.00	0.07	0.02	0.00	0.02	65.6	0.00	0.00	66.1
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assem	5/1/2033	10/31/2033	5	131	10	2033	Worker	12	24	18.5	0.00	0.00	0.06	0.00	0.02	0.00	0.02	0.01	0.00	0.01	18.1	0.00	0.00	18.3
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Worker	8	16	18.5	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.1	0.00	0.00	4.1
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Worker	10	20	18.5	0.02	0.02	0.31	0.00	0.08	0.00	0.08	0.02	0.00	0.02	77.7	0.00	0.00	78.3
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Worker	10	20	18.5	0.01	0.01	0.08	0.00	0.03	0.00	0.03	0.01	0.00	0.01	23.1	0.00	0.00	23.3
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Worker	14	28	18.5	0.01	0.01	0.13	0.00	0.04	0.00	0.04	0.01	0.00	0.01	38.7	0.00	0.00	39.0
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Worker	12	24	18.5	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.2	0.00	0.00	3.2
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Worker	8	16	18.5	0.01	0.01	0.15	0.00	0.05	0.00	0.05	0.01	0.00	0.01	46.1	0.00	0.00	46.4
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Worker	10	20	18.5	0.02	0.02	0.31	0.00	0.08	0.00	0.08	0.02	0.00	0.02	77.7	0.00	0.00	78.3
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Worker	10	20	18.5	0.01	0.01	0.08	0.00	0.03	0.00	0.03	0.01	0.00	0.01	23.1	0.00	0.00	23.3
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Worker	14	28	18.5	0.01	0.01	0.11	0.00	0.04	0.00	0.04	0.01	0.00	0.01	32.1	0.00	0.00	32.3
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Worker	12	24	18.5	0.00	0.00	0.03	0.00	0.01	0.00	0.01	0.00	0.00	0.00	8.9	0.00	0.00	8.9
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Worker	8	16	18.5	0.01	0.01	0.13	0.00	0.04	0.00	0.04	0.01	0.00	0.01	38.1	0.00	0.00	38.4
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Worker	10	20	18.5	0.02	0.02	0.31	0.00	0.08	0.00	0.08	0.02	0.00	0.02	77.7	0.00	0.00	78.3
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Worker	10	20	18.5	0.01	0.01	0.08	0.00	0.03	0.00	0.03	0.01	0.00	0.01	23.1	0.00	0.00	23.3
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Worker	14	28	18.5	0.02	0.02	0.28	0.00	0.09	0.00	0.09	0.02	0.00	0.02	81.7	0.00	0.00	82.3
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Worker	12	24	18.5	0.00	0.00	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	11.7	0.00	0.00	11.8
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Worker	8	16	18.5	0.01	0.01	0.11	0.00	0.04	0.00	0.04	0.01	0.00	0.01	33.9	0.00	0.00	34.1
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Worker	10	20	18.5	0.02	0.02	0.31	0.00	0.08	0.00	0.08	0.02	0.00	0.02	77.7	0.00	0.00	78.3
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Worker	10	20	18.5	0.01	0.01	0.08	0.00	0.03	0.00	0.03	0.01	0.00	0.01	23.1	0.00	0.00	23.3
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Worker	14	28	18.5	0.01	0.01	0.16	0.00	0.05	0.00	0.05	0.01	0.00	0.01	45.9	0.00	0.00	46.2
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Worker	12	24	18.5	0.00	0.00	0.05	0.00	0.02	0.00	0.02	0.00	0.00	0.00	15.2	0.00	0.00	15.3
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Worker	8	16	18.5	0.01	0.01	0.10	0.00	0.03	0.00	0.03	0.01	0.00	0.01	30.0	0.00	0.00	30.2
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Worker	10	20	18.5	0.02	0.02	0.31	0.00	0.08	0.00	0.08	0.02	0.00	0.02	77.7	0.00	0.00	78.3
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Worker	10	20	18.5	0.01	0.01	0.08	0.00	0.03	0.00	0.03	0.01	0.00	0.01	23.1	0.00	0.00	23.3
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Worker	14	28	18.5	0.01	0.01	0.11	0.00	0.04	0.00	0.04	0.01	0.00	0.01	32.1	0.00	0.00	32.3
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Worker	12	24	18.5	0.00	0.00	0.05	0.00	0.02	0.00	0.02	0.00	0.00	0.00	14.8	0.00	0.00	14.9
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Worker	8	16	18.5	0.01	0.00	0.08	0.00	0.03	0.00	0.03	0.01	0.00	0.01	24.1	0.00	0.00	24.3
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Worker	10	20	18.5	0.03	0.03	0.38	0.00	0.10	0.00	0.10	0.03	0.00	0.03	96.0	0.00	0.00	96.8
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Worker	10	20	18.5	0.02	0.02	0.24	0.00	0.07	0.00	0.07	0.02	0.00	0.02	64.3	0.00	0.00	64.8
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Worker	14	28	18.5	0.02	0.02	0.29	0.00	0.09	0.00	0.10	0.02	0.00	0.02	85.0	0.00	0.00	85.6
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Worker	12	24	18.5	0.02	0.01	0.23	0.00	0.08	0.00	0.08	0.02	0.00	0.02	74.6	0.00	0.00	75.0
UCLA Gateway MRT Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Worker	8	16	18.5	0.01	0.01	0.12	0.00	0.05	0.00	0.05	0.01	0.00	0.01	39.4	0.00	0.00	39.6
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Worker	10	20	18.5	0.03	0.03	0.38	0.00	0.10	0.00	0.10	0.03	0.00	0.03	96.0	0.00	0.00	96.8
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Worker	10	20	18.5	0.02	0.02	0.24	0.00	0.07	0.00	0.07	0.02	0.00	0.02	64.3	0.00	0.00	64.8
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Worker	14	28	18.5	0.02	0.02	0.29	0.00	0.09	0.00	0.10	0.02	0.00	0.02	85.0	0.00	0.00	85.6
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Worker	12	24	18.5	0.02	0.01	0.23	0.00	0.08	0.00	0.08	0.02	0.00	0.02	74.6	0.00	0.00	75.0
Wilshire Blvd-Metro D Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Worker	8	16	18.5	0.01	0.01	0.12	0.00	0.05	0.00	0.05	0.01	0.00	0.01	39.4	0.00	0.00	39.6
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Worker	10	20	18.5	0.02	0.02	0.31	0.00	0.08	0.00	0.08	0.02	0.00	0.02	77.7	0.00	0.00	78.3
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Worker	10	20	18.5	0.01	0.01	0.08	0.00	0.03	0.00	0.03	0.01	0.00	0.01	23.1	0.00	0.00	23.3
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Worker	14	28	18.5	0.01	0.01	0.11	0.00	0.04	0.00	0.04	0.01	0.00	0.01	32.1	0.00	0.00	32.3
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Worker	12	24	18.5	0.00	0.00	0.06	0.00	0.02	0.00	0.02	0.01	0.00	0.01	17.9	0.00	0.00	18.0
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Worker	8	16	18.5	0.01	0.01	0.10	0.00	0.03	0.00	0.03	0.01	0.00	0.01	30.1	0.00	0.00	30.3

Sepulveda Transit Corridor Project - ALTERNATIVE 3

WORKER VEHICLES (OFFSITE)

										Running Emission Factor (g/mile)[1,2]													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Workers per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Worker	10	20	18.5	0.02	0.07	0.99	0.00	0.32	0.001	0.32	0.08	0.00	0.08	318.17	0.00	0.01
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Worker	10	20	18.5	0.01	0.06	0.88	0.00	0.32	0.001	0.32	0.08	0.00	0.08	312.62	0.00	0.01
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Worker	14	28	18.5	0.01	0.05	0.83	0.00	0.32	0.001	0.32	0.08	0.00	0.08	310.19	0.00	0.01
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Worker	12	24	18.5	0.01	0.05	0.79	0.00	0.32	0.001	0.32	0.08	0.00	0.08	307.92	0.00	0.00
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Worker	8	16	18.5	0.01	0.05	0.79	0.00	0.32	0.001	0.32	0.08	0.00	0.08	307.92	0.00	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Worker	10	20	18.5	0.01	0.05	0.83	0.00	0.32	0.001	0.32	0.08	0.00	0.08	310.19	0.00	0.01
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Worker	8	16	18.5	0.01	0.05	0.79	0.00	0.32	0.001	0.32	0.08	0.00	0.08	307.92	0.00	0.00
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Worker	8	16	18.5	0.01	0.05	0.79	0.00	0.32	0.001	0.32	0.08	0.00	0.08	307.92	0.00	0.00
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Worker	18	36	18.5	0.01	0.05	0.79	0.00	0.32	0.001	0.32	0.08	0.00	0.08	307.92	0.00	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Worker	10	20	18.5	0.01	0.05	0.79	0.00	0.32	0.001	0.32	0.08	0.00	0.08	307.92	0.00	0.00
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Worker	14	28	18.5	0.01	0.05	0.79	0.00	0.32	0.001	0.32	0.08	0.00	0.08	307.92	0.00	0.00
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Worker	10	20	18.5	0.01	0.05	0.83	0.00	0.32	0.001	0.32	0.08	0.00	0.08	310.19	0.00	0.01
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Worker	8	16	18.5	0.01	0.05	0.79	0.00	0.32	0.001	0.32	0.08	0.00	0.08	307.92	0.00	0.00
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Worker	8	16	18.5	0.01	0.05	0.79	0.00	0.32	0.001	0.32	0.08	0.00	0.08	307.92	0.00	0.00
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Worker	18	36	18.5	0.01	0.05	0.79	0.00	0.32	0.001	0.32	0.08	0.00	0.08	307.92	0.00	0.00
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Worker	10	20	18.5	0.01	0.05	0.79	0.00	0.32	0.001	0.32	0.08	0.00	0.08	307.92	0.00	0.00
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Worker	14	28	18.5	0.01	0.05	0.79	0.00	0.32	0.001	0.32	0.08	0.00	0.08	307.92	0.00	0.00
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Worker	10	20	18.5	0.01	0.05	0.83	0.00	0.32	0.001	0.32	0.08	0.00	0.08	310.19	0.00	0.01
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Worker	8	16	18.5	0.01	0.05	0.79	0.00	0.32	0.001	0.32	0.08	0.00	0.08	307.92	0.00	0.00
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Worker	8	16	18.5	0.01	0.05	0.79	0.00	0.32	0.001	0.32	0.08	0.00	0.08	307.92	0.00	0.00
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Worker	18	36	18.5	0.01	0.05	0.79	0.00	0.32	0.001	0.32	0.08	0.00	0.08	307.92	0.00	0.00
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Worker	10	20	18.5	0.01	0.05	0.79	0.00	0.32	0.001	0.32	0.08	0.00	0.08	307.92	0.00	0.00
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Worker	14	28	18.5	0.01	0.05	0.79	0.00	0.32	0.001	0.32	0.08	0.00	0.08	307.92	0.00	0.00
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Worker	10	20	18.5	0.01	0.06	0.88	0.00	0.32	0.001	0.32	0.08	0.00	0.08	312.62	0.00	0.01
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Worker	10	20	18.5	0.01	0.05	0.79	0.00	0.32	0.001	0.32	0.08	0.00	0.08	307.92	0.00	0.00
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Worker	14	28	18.5	0.01	0.05	0.79	0.00	0.32	0.001	0.32	0.08	0.00	0.08	307.92	0.00	0.00
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Worker	12	24	18.5	0.01	0.05	0.79	0.00	0.32	0.001	0.32	0.08	0.00	0.08	307.92	0.00	0.00
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Worker	10	20	18.5	0.01	0.05	0.79	0.00	0.32	0.001	0.32	0.08	0.00	0.08	307.92	0.00	0.00
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Worker	12	24	18.5	0.01	0.04	0.75	0.00	0.32	0.001	0.32	0.08	0.00	0.08	305.85	0.00	0.00
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Worker	14	28	18.5	0.02	0.07	0.99	0.00	0.32	0.001	0.32	0.08	0.00	0.08	318.17	0.00	0.01
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Worker	14	28	18.5	0.02	0.07	0.99	0.00	0.32	0.001	0.32	0.08	0.00	0.08	318.17	0.00	0.01
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Worker	14	28	18.5	0.02	0.07	0.99	0.00	0.32	0.001	0.32	0.08	0.00	0.08	318.17	0.00	0.01
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Worker	14	28	18.5	0.02	0.07	0.99	0.00	0.32	0.001	0.32	0.08	0.00	0.08	318.17	0.00	0.01
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Worker	10	20	18.5	0.02	0.07	0.99	0.00	0.32	0.001	0.32	0.08	0.00	0.08	318.17	0.00	0.01
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Worker	26	52	18.5	0.01	0.06	0.94	0.00	0.32	0.001	0.32	0.08	0.00	0.08	315.30	0.00	0.01
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Worker	38	76	18.5	0.01	0.06	0.88	0.00	0.32	0.001	0.32	0.08	0.00	0.08	312.62	0.00	0.01
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Worker	18	36	18.5	0.01	0.05	0.83	0.00	0.32	0.001	0.32	0.08	0.00	0.08	310.19	0.00	0.01
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Worker	10	12	25.0	0.02	0.07	0.99	0.00	0.32	0.001	0.32	0.08	0.00	0.08	318.17	0.00	0.01
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Worker	14	12	25.0	0.02	0.07	0.99	0.00	0.32	0.001	0.32	0.08	0.00	0.08	318.17	0.00	0.01
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Worker	24	60	25.0	0.02	0.07	0.99	0.00	0.32	0.001	0.32	0.08	0.00	0.08	318.17	0.00	0.01
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Worker	10	12	25.0	0.01	0.06	0.94	0.00	0.32	0.001	0.32	0.08	0.00	0.08	315.30	0.00	0.01
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Worker	14	12	25.0	0.01	0.06	0.94	0.00	0.32	0.001	0.32	0.08	0.00	0.08	315.30	0.00	0.01
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Worker	14	12	25.0	0.01	0.06	0.94	0.00	0.32	0.001	0.32	0.08	0.00	0.08	315.30	0.00	0.01

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Fleet Mix:** Light-Duty Mix (25% LDA/50% LDT1/25% LDT2); **Fuel Type:** Gasoline

2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.

3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 3

WORKER VEHICLES (OFFSITE)

											Non-Running Emission Factor (g/trip)[1,3]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Workers per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Worker	10	20	18.5	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.32	0.07	0.03
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Worker	10	20	18.5	1.07	0.25	2.88	0.001	-	0.002	0.002	-	0.002	0.002	76.36	0.06	0.03
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Worker	14	28	18.5	1.02	0.24	2.73	0.001	-	0.002	0.002	-	0.002	0.002	75.47	0.06	0.03
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Worker	12	24	18.5	0.98	0.23	2.59	0.001	-	0.002	0.002	-	0.002	0.002	74.65	0.05	0.03
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Worker	8	16	18.5	0.98	0.23	2.59	0.001	-	0.002	0.002	-	0.002	0.002	74.65	0.05	0.03
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Worker	10	20	18.5	1.02	0.24	2.73	0.001	-	0.002	0.002	-	0.002	0.002	75.47	0.06	0.03
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Worker	8	16	18.5	0.98	0.23	2.59	0.001	-	0.002	0.002	-	0.002	0.002	74.65	0.05	0.03
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Worker	8	16	18.5	0.98	0.23	2.59	0.001	-	0.002	0.002	-	0.002	0.002	74.65	0.05	0.03
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Worker	18	36	18.5	0.98	0.23	2.59	0.001	-	0.002	0.002	-	0.002	0.002	74.65	0.05	0.03
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Worker	10	20	18.5	0.98	0.23	2.59	0.001	-	0.002	0.002	-	0.002	0.002	74.65	0.05	0.03
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Worker	14	28	18.5	0.98	0.23	2.59	0.001	-	0.002	0.002	-	0.002	0.002	74.65	0.05	0.03
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Worker	10	20	18.5	1.02	0.24	2.73	0.001	-	0.002	0.002	-	0.002	0.002	75.47	0.06	0.03
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Worker	8	16	18.5	0.98	0.23	2.59	0.001	-	0.002	0.002	-	0.002	0.002	74.65	0.05	0.03
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Worker	8	16	18.5	0.98	0.23	2.59	0.001	-	0.002	0.002	-	0.002	0.002	74.65	0.05	0.03
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Worker	18	36	18.5	0.98	0.23	2.59	0.001	-	0.002	0.002	-	0.002	0.002	74.65	0.05	0.03
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Worker	10	20	18.5	0.98	0.23	2.59	0.001	-	0.002	0.002	-	0.002	0.002	74.65	0.05	0.03
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Worker	14	28	18.5	0.98	0.23	2.59	0.001	-	0.002	0.002	-	0.002	0.002	74.65	0.05	0.03
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Worker	10	20	18.5	1.02	0.24	2.73	0.001	-	0.002	0.002	-	0.002	0.002	75.47	0.06	0.03
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Worker	8	16	18.5	0.98	0.23	2.59	0.001	-	0.002	0.002	-	0.002	0.002	74.65	0.05	0.03
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Worker	8	16	18.5	0.98	0.23	2.59	0.001	-	0.002	0.002	-	0.002	0.002	74.65	0.05	0.03
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Worker	18	36	18.5	0.98	0.23	2.59	0.001	-	0.002	0.002	-	0.002	0.002	74.65	0.05	0.03
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Worker	10	20	18.5	0.98	0.23	2.59	0.001	-	0.002	0.002	-	0.002	0.002	74.65	0.05	0.03
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Worker	14	28	18.5	0.98	0.23	2.59	0.001	-	0.002	0.002	-	0.002	0.002	74.65	0.05	0.03
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Worker	10	20	18.5	1.07	0.25	2.88	0.001	-	0.002	0.002	-	0.002	0.002	76.36	0.06	0.03
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Worker	10	20	18.5	0.98	0.23	2.59	0.001	-	0.002	0.002	-	0.002	0.002	74.65	0.05	0.03
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Worker	14	28	18.5	0.98	0.23	2.59	0.001	-	0.002	0.002	-	0.002	0.002	74.65	0.05	0.03
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Worker	12	24	18.5	0.98	0.23	2.59	0.001	-	0.002	0.002	-	0.002	0.002	74.65	0.05	0.03
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Worker	10	20	18.5	0.98	0.23	2.59	0.001	-	0.002	0.002	-	0.002	0.002	74.65	0.05	0.03
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Worker	12	24	18.5	0.92	0.22	2.45	0.001	-	0.002	0.002	-	0.001	0.001	73.85	0.05	0.03
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Worker	14	28	18.5	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.32	0.07	0.03
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Worker	14	28	18.5	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.32	0.07	0.03
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Worker	14	28	18.5	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.32	0.07	0.03
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Worker	14	28	18.5	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.32	0.07	0.03
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Worker	10	20	18.5	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.32	0.07	0.03
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Worker	26	52	18.5	1.13	0.26	3.06	0.001	-	0.002	0.002	-	0.002	0.002	77.32	0.06	0.03
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Worker	38	76	18.5	1.07	0.25	2.88	0.001	-	0.002	0.002	-	0.002	0.002	76.36	0.06	0.03
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Worker	18	36	18.5	1.02	0.24	2.73	0.001	-	0.002	0.002	-	0.002	0.002	75.47	0.06	0.03
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Worker	10	12	25.0	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.32	0.07	0.03
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Worker	14	12	25.0	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.32	0.07	0.03
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Worker	24	60	25.0	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.32	0.07	0.03
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Worker	10	12	25.0	1.13	0.26	3.06	0.001	-	0.002	0.002	-	0.002	0.002	77.32	0.06	0.03
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Worker	14	12	25.0	1.13	0.26	3.06	0.001	-	0.002	0.002	-	0.002	0.002	77.32	0.06	0.03
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Worker	14	12	25.0	1.13	0.26	3.06	0.001	-	0.002	0.002	-	0.002	0.002	77.32	0.06	0.03

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Fleet Mix:** Light-Duty Mix (25% LDA/50% LDT1/25% LDT2); **Fuel Type:** Gasoline

2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.

3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 3

WORKER VEHICLES (OFFSITE)

											Daily Emissions (lb/day)												
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Hours per Workday**	**EF Year**	**Trip Type**	**Workers per Day**	**Total One-Way Trips per Day**	**One-Way Trip Length (mi)**	**ROG**	**NO_X**	**CO**	**SO_X**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**	**CO_2**	**CH_4**	**N_2O**
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Worker	10	20	18.5	0.07	0.07	0.95	0.00	0.26	0.00	0.26	0.07	0.00	0.07	263.0	0.01	0.01
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Worker	10	20	18.5	0.06	0.06	0.85	0.00	0.26	0.00	0.26	0.07	0.00	0.07	258.4	0.01	0.01
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Worker	14	28	18.5	0.08	0.07	1.12	0.00	0.36	0.00	0.36	0.09	0.00	0.09	358.9	0.01	0.01
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Worker	12	24	18.5	0.06	0.06	0.91	0.00	0.31	0.00	0.31	0.08	0.00	0.08	305.4	0.01	0.01
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Worker	8	16	18.5	0.04	0.04	0.61	0.00	0.21	0.00	0.21	0.05	0.00	0.05	203.6	0.00	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Worker	10	20	18.5	0.05	0.05	0.80	0.00	0.26	0.00	0.26	0.07	0.00	0.07	256.4	0.00	0.01
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Worker	8	16	18.5	0.04	0.04	0.61	0.00	0.21	0.00	0.21	0.05	0.00	0.05	203.6	0.00	0.00
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Worker	8	16	18.5	0.04	0.04	0.61	0.00	0.21	0.00	0.21	0.05	0.00	0.05	203.6	0.00	0.00
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Worker	18	36	18.5	0.09	0.09	1.37	0.00	0.47	0.00	0.47	0.12	0.00	0.12	458.0	0.01	0.01
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Worker	10	20	18.5	0.05	0.05	0.76	0.00	0.26	0.00	0.26	0.07	0.00	0.07	254.5	0.00	0.01
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Worker	14	28	18.5	0.07	0.07	1.07	0.00	0.36	0.00	0.36	0.09	0.00	0.09	356.2	0.01	0.01
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Worker	10	20	18.5	0.05	0.05	0.80	0.00	0.26	0.00	0.26	0.07	0.00	0.07	256.4	0.00	0.01
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Worker	8	16	18.5	0.04	0.04	0.61	0.00	0.21	0.00	0.21	0.05	0.00	0.05	203.6	0.00	0.00
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Worker	8	16	18.5	0.04	0.04	0.61	0.00	0.21	0.00	0.21	0.05	0.00	0.05	203.6	0.00	0.00
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Worker	18	36	18.5	0.09	0.09	1.37	0.00	0.47	0.00	0.47	0.12	0.00	0.12	458.0	0.01	0.01
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Worker	10	20	18.5	0.05	0.05	0.76	0.00	0.26	0.00	0.26	0.07	0.00	0.07	254.5	0.00	0.01
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Worker	14	28	18.5	0.07	0.07	1.07	0.00	0.36	0.00	0.36	0.09	0.00	0.09	356.2	0.01	0.01
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Worker	10	20	18.5	0.05	0.05	0.80	0.00	0.26	0.00	0.26	0.07	0.00	0.07	256.4	0.00	0.01
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Worker	8	16	18.5	0.04	0.04	0.61	0.00	0.21	0.00	0.21	0.05	0.00	0.05	203.6	0.00	0.00
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Worker	8	16	18.5	0.04	0.04	0.61	0.00	0.21	0.00	0.21	0.05	0.00	0.05	203.6	0.00	0.00
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Worker	18	36	18.5	0.09	0.09	1.37	0.00	0.47	0.00	0.47	0.12	0.00	0.12	458.0	0.01	0.01
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Worker	10	20	18.5	0.05	0.05	0.76	0.00	0.26	0.00	0.26	0.07	0.00	0.07	254.5	0.00	0.01
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Worker	14	28	18.5	0.07	0.07	1.07	0.00	0.36	0.00	0.36	0.09	0.00	0.09	356.2	0.01	0.01
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Worker	10	20	18.5	0.06	0.06	0.85	0.00	0.26	0.00	0.26	0.07	0.00	0.07	258.4	0.01	0.01
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Worker	10	20	18.5	0.05	0.05	0.76	0.00	0.26	0.00	0.26	0.07	0.00	0.07	254.5	0.00	0.01
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Worker	14	28	18.5	0.07	0.07	1.07	0.00	0.36	0.00	0.36	0.09	0.00	0.09	356.2	0.01	0.01
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Worker	12	24	18.5	0.06	0.06	0.91	0.00	0.31	0.00	0.31	0.08	0.00	0.08	305.4	0.01	0.01
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Worker	10	20	18.5	0.05	0.05	0.76	0.00	0.26	0.00	0.26	0.07	0.00	0.07	254.5	0.00	0.01
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Worker	12	24	18.5	0.06	0.05	0.87	0.00	0.31	0.00	0.31	0.08	0.00	0.08	303.3	0.01	0.01
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Worker	14	28	18.5	0.09	0.10	1.33	0.00	0.36	0.00	0.36	0.09	0.00	0.09	368.2	0.01	0.01
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Worker	14	28	18.5	0.09	0.10	1.33	0.00	0.36	0.00	0.36	0.09	0.00	0.09	368.2	0.01	0.01
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Worker	14	28	18.5	0.09	0.10	1.33	0.00	0.36	0.00	0.36	0.09	0.00	0.09	368.2	0.01	0.01
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Worker	14	28	18.5	0.09	0.10	1.33	0.00	0.36	0.00	0.36	0.09	0.00	0.09	368.2	0.01	0.01
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Worker	10	20	18.5	0.07	0.07	0.95	0.00	0.26	0.00	0.26	0.07	0.00	0.07	263.0	0.01	0.01
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Worker	26	52	18.5	0.16	0.16	2.33	0.01	0.67	0.00	0.68	0.17	0.00	0.17	677.6	0.01	0.02
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Worker	38	76	18.5	0.22	0.22	3.21	0.01	0.99	0.00	0.99	0.25	0.00	0.25	981.8	0.02	0.02
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Worker	18	36	18.5	0.10	0.09	1.44	0.00	0.47	0.00	0.47	0.12	0.00	0.12	461.4	0.01	0.01
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Worker	10	12	25.0	0.04	0.05	0.74	0.00	0.21	0.00	0.21	0.05	0.00	0.05	212.5	0.00	0.00
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Worker	14	12	25.0	0.04	0.05	0.74	0.00	0.21	0.00	0.21	0.05	0.00	0.05	212.5	0.00	0.00
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Worker	24	60	25.0	0.21	0.27	3.71	0.01	1.05	0.01	1.06	0.27	0.00	0.27	1062.5	0.02	0.02
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Worker	10	12	25.0	0.04	0.05	0.70	0.00	0.21	0.00	0.21	0.05	0.00	0.05	210.6	0.00	0.00
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Worker	14	12	25.0	0.04	0.05	0.70	0.00	0.21	0.00	0.21	0.05	0.00	0.05	210.6	0.00	0.00
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Worker	14	12	25.0	0.04	0.05	0.70	0.00	0.21	0.00	0.21	0.05	0.00	0.05	210.6	0.00	0.00

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Fleet Mix:** Light-Duty Mix (25% LDA/50% LDT1/25% LDT2); **Fuel Type:** Gasoline

2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.

3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 3

WORKER VEHICLES (OFFSITE)

											Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Workers per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Worker	10	20	18.5	0.02	0.02	0.31	0.00	0.08	0.00	0.08	0.02	0.00	0.02	77.7	0.00	0.00	78.3
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Worker	10	20	18.5	0.01	0.01	0.08	0.00	0.03	0.00	0.03	0.01	0.00	0.01	23.1	0.00	0.00	23.3
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Worker	14	28	18.5	0.01	0.01	0.13	0.00	0.04	0.00	0.04	0.01	0.00	0.01	38.7	0.00	0.00	39.0
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Worker	12	24	18.5	0.00	0.00	0.03	0.00	0.01	0.00	0.01	0.00	0.00	0.00	9.1	0.00	0.00	9.2
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Worker	8	16	18.5	0.01	0.01	0.15	0.00	0.05	0.00	0.05	0.01	0.00	0.01	44.1	0.00	0.00	44.4
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Worker	10	20	18.5	0.00	0.00	0.07	0.00	0.02	0.00	0.02	0.01	0.00	0.01	20.3	0.00	0.00	20.5
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Worker	8	16	18.5	0.00	0.00	0.02	0.00	0.01	0.00	0.01	0.00	0.00	0.00	5.9	0.00	0.00	5.9
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Worker	8	16	18.5	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.0	0.00	0.00	4.0
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Worker	18	36	18.5	0.00	0.00	0.03	0.00	0.01	0.00	0.01	0.00	0.00	0.00	8.9	0.00	0.00	9.0
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Worker	10	20	18.5	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.7	0.00	0.00	2.7
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Worker	14	28	18.5	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.6	0.00	0.00	3.6
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Worker	10	20	18.5	0.00	0.00	0.07	0.00	0.02	0.00	0.02	0.01	0.00	0.01	20.3	0.00	0.00	20.5
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Worker	8	16	18.5	0.00	0.00	0.02	0.00	0.01	0.00	0.01	0.00	0.00	0.00	5.9	0.00	0.00	5.9
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Worker	8	16	18.5	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.0	0.00	0.00	4.0
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Worker	18	36	18.5	0.00	0.00	0.03	0.00	0.01	0.00	0.01	0.00	0.00	0.00	8.9	0.00	0.00	9.0
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Worker	10	20	18.5	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.7	0.00	0.00	2.7
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Worker	14	28	18.5	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.6	0.00	0.00	3.6
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Worker	10	20	18.5	0.00	0.00	0.07	0.00	0.02	0.00	0.02	0.01	0.00	0.01	20.3	0.00	0.00	20.5
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Worker	8	16	18.5	0.00	0.00	0.02	0.00	0.01	0.00	0.01	0.00	0.00	0.00	5.9	0.00	0.00	5.9
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Worker	8	16	18.5	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.0	0.00	0.00	4.0
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Worker	18	36	18.5	0.00	0.00	0.03	0.00	0.01	0.00	0.01	0.00	0.00	0.00	8.9	0.00	0.00	9.0
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Worker	10	20	18.5	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.7	0.00	0.00	2.7
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Worker	14	28	18.5	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.6	0.00	0.00	3.6
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Worker	10	20	18.5	0.01	0.01	0.17	0.00	0.05	0.00	0.05	0.01	0.00	0.01	46.2	0.00	0.00	46.5
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Worker	10	20	18.5	0.00	0.00	0.02	0.00	0.01	0.00	0.01	0.00	0.00	0.00	7.4	0.00	0.00	7.4
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Worker	14	28	18.5	0.00	0.00	0.03	0.00	0.01	0.00	0.01	0.00	0.00	0.00	10.5	0.00	0.00	10.6
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Worker	12	24	18.5	0.00	0.00	0.02	0.00	0.01	0.00	0.01	0.00	0.00	0.00	6.1	0.00	0.00	6.1
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Worker	10	20	18.5	0.00	0.00	0.05	0.00	0.02	0.00	0.02	0.00	0.00	0.00	14.9	0.00	0.00	15.0
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Worker	12	24	18.5	0.00	0.00	0.02	0.00	0.01	0.00	0.01	0.00	0.00	0.00	5.9	0.00	0.00	6.0
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Worker	14	28	18.5	0.01	0.01	0.07	0.00	0.02	0.00	0.02	0.01	0.00	0.01	18.4	0.00	0.00	18.5
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Worker	14	28	18.5	0.01	0.01	0.10	0.00	0.03	0.00	0.03	0.01	0.00	0.01	25.7	0.00	0.00	25.9
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Worker	14	28	18.5	0.01	0.01	0.07	0.00	0.02	0.00	0.02	0.01	0.00	0.01	18.4	0.00	0.00	18.5
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Worker	14	28	18.5	0.01	0.01	0.10	0.00	0.03	0.00	0.03	0.01	0.00	0.01	25.7	0.00	0.00	25.9
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Worker	10	20	18.5	0.01	0.01	0.19	0.00	0.05	0.00	0.05	0.01	0.00	0.01	46.5	0.00	0.00	46.9
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Worker	26	52	18.5	0.02	0.02	0.25	0.00	0.07	0.00	0.07	0.02	0.00	0.02	67.0	0.00	0.00	67.5
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Worker	38	76	18.5	0.02	0.02	0.32	0.00	0.10	0.00	0.10	0.02	0.00	0.02	87.7	0.00	0.00	88.4
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Worker	18	36	18.5	0.01	0.01	0.17	0.00	0.06	0.00	0.06	0.01	0.00	0.01	50.2	0.00	0.00	50.6
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Worker	10	12	25.0	0.00	0.00	0.05	0.00	0.01	0.00	0.01	0.00	0.00	0.00	12.5	0.00	0.00	12.6
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Worker	14	12	25.0	0.00	0.00	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	10.6	0.00	0.00	10.7
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Worker	24	60	25.0	0.01	0.01	0.20	0.00	0.06	0.00	0.06	0.01	0.00	0.01	51.6	0.00	0.00	52.0
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Worker	10	12	25.0	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.1	0.00	0.00	4.1
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Worker	14	12	25.0	0.00	0.00	0.02	0.00	0.01	0.00	0.01	0.00	0.00	0.00	6.3	0.00	0.00	6.3
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Worker	14	12	25.0	0.02	0.02	0.27	0.00	0.08	0.00	0.08	0.02	0.00	0.02	74.7	0.00	0.00	75.2

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Fleet Mix:** Light-Duty Mix (25% LDA/50% LDT1/25% LDT2); **Fuel Type:** Gasoline
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 3

SOIL/MATERIAL HAUL TRUCKS (ONSITE)

											Running Emission Factor (g/mile)[1,2,4]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.007	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	6	6	0.1	0.03	4.62	0.33	0.02	184.10	0.007	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Haul	16	16	0.1	0.03	4.58	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Haul	-	-	0.1	0.03	4.51	0.31	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1831.9	0.00	0.29
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Haul	-	-	0.1	0.03	4.48	0.31	0.02	184.11	0.007	184.12	18.39	0.01	18.40	1810.2	0.00	0.29
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.007	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	2030	Haul	2	2	0.1	0.03	4.62	0.33	0.02	184.10	0.007	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	2032	Haul	90	90	0.1	0.03	4.58	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	2033	Haul	132	132	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	2035	Haul	-	-	0.1	0.03	4.51	0.31	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1831.9	0.00	0.29
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.007	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	2	2	0.1	0.03	4.62	0.33	0.02	184.10	0.007	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (CID	6/1/2032	10/31/2033	5	370	10	2032	Haul	2	2	0.1	0.03	4.58	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Assemt	11/1/2033	11/30/2033	5	22	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.007	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	2	2	0.1	0.03	4.62	0.33	0.02	184.10	0.007	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	8/1/2032	5/31/2033	5	217	10	2032	Haul	10	10	0.1	0.03	4.58	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.007	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	2	0.1	0.03	4.60	0.33	0.02	184.10	0.007	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Haul	2	2	0.1	0.03	4.58	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.007	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	2	0.1	0.03	4.60	0.33	0.02	184.10	0.007	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	2	2	0.1	0.03	4.58	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.007	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	2	0.1	0.03	4.60	0.33	0.02	184.10	0.007	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Haul	2	2	0.1	0.03	4.58	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Haul	-	-	0.1	0.03	4.53	0.31	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1854.7	0.00	0.29
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Haul	-	-	0.1	0.03	4.53	0.31	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1854.7	0.00	0.29
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.007	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	2	0.1	0.03	4.60	0.33	0.02	184.10	0.007	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Haul	2	2	0.1	0.03	4.58	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.007	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	2	0.1	0.03	4.60	0.33	0.02	184.10	0.007	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	2	2	0.1	0.03	4.58	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.007	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Haul	4	4	0.1	0.03	4.62	0.33	0.02	184.10	0.007	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Haul	50	50	0.1	0.03	4.58	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Haul	-	-	0.1	0.03	4.53	0.31	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1854.7	0.00	0.29
UCLA Gateway MRT Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Haul	-	-	0.1	0.03	4.48	0.31	0.02	184.11	0.007	184.12	18.39	0.01	18.40	1810.2	0.00	0.29
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.007	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Haul	2	2	0.1	0.03	4.62	0.33	0.02	184.10	0.007	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Haul	84	84	0.1	0.03	4.58	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Haul	-	-	0.1	0.03	4.53	0.31	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1854.7	0.00	0.29
Wilshire Blvd-Metro D Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Haul	-	-	0.1	0.03	4.48	0.31	0.02	184.11	0.007	184.12	18.39	0.01	18.40	1810.2	0.00	0.29
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.007	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	2	0.1	0.03	4.60	0.33	0.02	184.10	0.007	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	2	2	0.1	0.03	4.58	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30

Sepulveda Transit Corridor Project - ALTERNATIVE 3

SOIL/MATERIAL HAUL TRUCKS (ONSITE)

											Non-Running Emission Factor (g/trip)[1,3]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	6	6	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.73	0.02	0.12
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Haul	16	16	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Haul	-	-	0.1	0.37	6.33	5.50	0.007	-	0.002	0.002	-	0.002	0.002	731.19	0.02	0.12
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Haul	-	-	0.1	0.37	6.31	5.54	0.007	-	0.002	0.002	-	0.002	0.002	730.10	0.02	0.12
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	2030	Haul	2	2	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.73	0.02	0.12
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	2032	Haul	90	90	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	2033	Haul	132	132	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	2035	Haul	-	-	0.1	0.37	6.33	5.50	0.007	-	0.002	0.002	-	0.002	0.002	731.19	0.02	0.12
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	2	2	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.73	0.02	0.12
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (CID	6/1/2032	10/31/2033	5	370	10	2032	Haul	2	2	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Assemt	11/1/2033	11/30/2033	5	22	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	2	2	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.73	0.02	0.12
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	8/1/2032	5/31/2033	5	217	10	2032	Haul	10	10	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	2	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.36	0.02	0.12
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Haul	2	2	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	2	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.36	0.02	0.12
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	2	2	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	2	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.36	0.02	0.12
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Haul	2	2	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Haul	-	-	0.1	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.19	0.02	0.12
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Haul	-	-	0.1	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.19	0.02	0.12
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	2	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.36	0.02	0.12
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Haul	2	2	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	2	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.36	0.02	0.12
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	2	2	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Haul	4	4	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.73	0.02	0.12
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Haul	50	50	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Haul	-	-	0.1	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.19	0.02	0.12
UCLA Gateway MRT Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Haul	-	-	0.1	0.37	6.31	5.54	0.007	-	0.002	0.002	-	0.002	0.002	730.10	0.02	0.12
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Haul	2	2	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.73	0.02	0.12
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Haul	84	84	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Haul	-	-	0.1	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.19	0.02	0.12
Wilshire Blvd-Metro D Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Haul	-	-	0.1	0.37	6.31	5.54	0.007	-	0.002	0.002	-	0.002	0.002	730.10	0.02	0.12
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	2	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.36	0.02	0.12
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	2	2	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12

Sepulveda Transit Corridor Project - ALTERNATIVE 3

SOIL/MATERIAL HAUL TRUCKS (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	Daily Emissions (lb/day)												
											ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	6	6	0.1	0.00	0.09	0.07	0.00	0.24	0.00	0.24	0.02	0.00	0.02	12.6	0.00	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Haul	16	16	0.1	0.01	0.24	0.19	0.00	0.65	0.00	0.65	0.06	0.00	0.06	33.0	0.00	0.01
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	2030	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.2	0.00	0.00
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	2032	Haul	90	90	0.1	0.07	1.36	1.08	0.00	3.65	0.00	3.65	0.36	0.00	0.37	185.4	0.00	0.03
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	2033	Haul	132	132	0.1	0.11	1.99	1.60	0.00	5.36	0.00	5.36	0.54	0.00	0.54	269.6	0.01	0.04
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	2035	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.2	0.00	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (CID	6/1/2032	10/31/2033	5	370	10	2032	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.1	0.00	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Assemb	11/1/2033	11/30/2033	5	22	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.2	0.00	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	8/1/2032	5/31/2033	5	217	10	2032	Haul	10	10	0.1	0.01	0.15	0.12	0.00	0.41	0.00	0.41	0.04	0.00	0.04	20.6	0.00	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.2	0.00	0.00
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.1	0.00	0.00
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.2	0.00	0.00
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.1	0.00	0.00
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.2	0.00	0.00
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.1	0.00	0.00
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.2	0.00	0.00
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.1	0.00	0.00
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.2	0.00	0.00
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.1	0.00	0.00
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Haul	4	4	0.1	0.00	0.06	0.05	0.00	0.16	0.00	0.16	0.02	0.00	0.02	8.4	0.00	0.00
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Haul	50	50	0.1	0.04	0.76	0.60	0.00	2.03	0.00	2.03	0.20	0.00	0.20	103.0	0.00	0.02
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.2	0.00	0.00
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Haul	84	84	0.1	0.07	1.27	1.01	0.00	3.41	0.00	3.41	0.34	0.00	0.34	173.0	0.00	0.03
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.2	0.00	0.00
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.1	0.00	0.00
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 3

SOIL/MATERIAL HAUL TRUCKS (ONSITE)

											Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	6	6	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	3.8	0.00	0.00	3.9
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Haul	16	16	0.1	0.01	0.10	0.08	0.00	0.28	0.00	0.28	0.03	0.00	0.03	12.7	0.00	0.00	13.3
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	2030	Haul	2	2	0.1	0.00	0.01	0.01	0.00	0.03	0.00	0.03	0.00	0.00	0.00	1.3	0.00	0.00	1.3
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	2032	Haul	90	90	0.1	0.01	0.11	0.08	0.00	0.28	0.00	0.28	0.03	0.00	0.03	13.0	0.00	0.00	13.6
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	2033	Haul	132	132	0.1	0.04	0.67	0.54	0.00	1.80	0.00	1.80	0.18	0.00	0.18	82.2	0.00	0.01	86.1
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	2035	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	2	2	0.1	0.00	0.01	0.01	0.00	0.03	0.00	0.03	0.00	0.00	0.00	1.3	0.00	0.00	1.3
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (CID	6/1/2032	10/31/2033	5	370	10	2032	Haul	2	2	0.1	0.00	0.01	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.7	0.00	0.00	0.7
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Assemb	11/1/2033	11/30/2033	5	22	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	2	2	0.1	0.00	0.01	0.01	0.00	0.03	0.00	0.03	0.00	0.00	0.00	1.3	0.00	0.00	1.3
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	8/1/2032	5/31/2033	5	217	10	2032	Haul	10	10	0.1	0.00	0.02	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	2.0	0.00	0.00	2.1
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.5
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Haul	2	2	0.1	0.00	0.01	0.01	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.9	0.00	0.00	1.0
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.5	0.00	0.00	0.6
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Haul	4	4	0.1	0.00	0.02	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	2.1	0.00	0.00	2.2
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Haul	50	50	0.1	0.01	0.20	0.16	0.00	0.53	0.00	0.53	0.05	0.00	0.05	24.4	0.00	0.00	25.5
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Haul	2	2	0.1	0.00	0.01	0.01	0.00	0.02	0.00	0.02	0.00	0.00	0.00	1.0	0.00	0.00	1.1
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Haul	84	84	0.1	0.02	0.33	0.26	0.00	0.89	0.00	0.89	0.09	0.00	0.09	41.0	0.00	0.01	42.9
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 3

SOIL/MATERIAL HAUL TRUCKS (ONSITE)

											Running Emission Factor (g/mile)[1,2,4]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.007	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	2	0.1	0.03	4.60	0.33	0.02	184.10	0.007	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Haul	2	2	0.1	0.03	4.58	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	6	6	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	6	6	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	14	14	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Haul	-	-	0.1	0.03	4.60	0.33	0.02	184.10	0.007	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	2	2	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Haul	22	22	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Haul	-	-	0.1	0.03	4.53	0.31	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1854.7	0.00	0.29
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Haul	2	2	0.1	0.03	4.65	0.34	0.02	184.10	0.007	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Haul	2	2	0.1	0.03	4.65	0.34	0.02	184.10	0.007	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Haul	2	2	0.1	0.03	4.65	0.34	0.02	184.10	0.007	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Haul	2	2	0.1	0.03	4.65	0.34	0.02	184.10	0.007	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.007	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Haul	46	46	0.1	0.03	4.62	0.33	0.02	184.10	0.007	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Haul	36	36	0.1	0.03	4.60	0.33	0.02	184.10	0.007	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Haul	34	34	0.1	0.03	4.58	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Haul	2	2	0.1	0.03	4.65	0.34	0.02	184.10	0.007	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.007	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.007	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Haul	-	-	0.1	0.03	4.62	0.33	0.02	184.10	0.007	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Haul	-	-	0.1	0.03	4.62	0.33	0.02	184.10	0.007	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Haul	2	2	0.1	0.03	4.62	0.33	0.02	184.10	0.007	184.11	18.39	0.01	18.39	1970.4	0.00	0.31

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** 100% HHDT; **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 3

SOIL/MATERIAL HAUL TRUCKS (ONSITE)

											Non-Running Emission Factor (g/trip)[1,3]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	2	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.36	0.02	0.12
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Haul	2	2	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	6	6	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	6	6	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	14	14	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Haul	-	-	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.36	0.02	0.12
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	2	2	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Haul	22	22	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Haul	-	-	0.1	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.19	0.02	0.12
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Haul	2	2	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Haul	2	2	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Haul	2	2	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Haul	2	2	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Haul	46	46	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.73	0.02	0.12
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Haul	36	36	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.36	0.02	0.12
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Haul	34	34	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Haul	2	2	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Haul	-	-	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.73	0.02	0.12
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Haul	-	-	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.73	0.02	0.12
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Haul	2	2	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.73	0.02	0.12

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** 100% HHDT; **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 3

SOIL/MATERIAL HAUL TRUCKS (ONSITE)

											Daily Emissions (lb/day)												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.2	0.00	0.00
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.1	0.00	0.00
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	6	6	0.1	0.00	0.09	0.07	0.00	0.24	0.00	0.24	0.02	0.00	0.02	12.3	0.00	0.00
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	6	6	0.1	0.00	0.09	0.07	0.00	0.24	0.00	0.24	0.02	0.00	0.02	12.3	0.00	0.00
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	14	14	0.1	0.01	0.21	0.17	0.00	0.57	0.00	0.57	0.06	0.00	0.06	28.6	0.00	0.00
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.1	0.00	0.00
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Haul	22	22	0.1	0.02	0.33	0.27	0.00	0.89	0.00	0.89	0.09	0.00	0.09	44.9	0.00	0.01
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.3	0.00	0.00
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.3	0.00	0.00
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.3	0.00	0.00
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.3	0.00	0.00
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Haul	46	46	0.1	0.04	0.71	0.55	0.00	1.87	0.00	1.87	0.19	0.00	0.19	96.9	0.00	0.02
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Haul	36	36	0.1	0.03	0.55	0.43	0.00	1.46	0.00	1.46	0.15	0.00	0.15	74.9	0.00	0.01
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Haul	34	34	0.1	0.03	0.52	0.41	0.00	1.38	0.00	1.38	0.14	0.00	0.14	70.0	0.00	0.01
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.3	0.00	0.00
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.2	0.00	0.00

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** 100% HHDT; **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 3

SOIL/MATERIAL HAUL TRUCKS (ONSITE)

											Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.5
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	6	6	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.3
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	6	6	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.3
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	14	14	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.6	0.00	0.00	0.6
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Haul	22	22	0.1	0.00	0.01	0.01	0.00	0.03	0.00	0.03	0.00	0.00	0.00	1.3	0.00	0.00	1.4
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Haul	46	46	0.1	0.00	0.08	0.06	0.00	0.20	0.00	0.20	0.02	0.00	0.02	9.6	0.00	0.00	10.0
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Haul	36	36	0.1	0.00	0.05	0.04	0.00	0.14	0.00	0.14	0.01	0.00	0.01	6.7	0.00	0.00	7.0
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Haul	34	34	0.1	0.00	0.06	0.05	0.00	0.17	0.00	0.17	0.02	0.00	0.02	7.6	0.00	0.00	8.0
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Haul	2	2	0.1	0.00	0.01	0.01	0.00	0.03	0.00	0.03	0.00	0.00	0.00	1.5	0.00	0.00	1.6

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** 100% HHDT; **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 3

SOIL/MATERIAL HAUL TRUCKS (OFFSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Running Emission Factor (g/mile)[1,2] ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	25.0	0.01	1.35	0.05	0.01	0.41	0.026	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	6	12	25.0	0.01	1.33	0.05	0.01	0.41	0.026	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Haul	16	32	25.0	0.01	1.30	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Haul	-	-	25.0	0.01	1.25	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1342.3	0.00	0.21
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Haul	-	-	25.0	0.01	1.24	0.04	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1327.5	0.00	0.21
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	2029	Haul	-	-	25.0	0.01	1.35	0.05	0.01	0.41	0.026	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	2030	Haul	2	4	25.0	0.01	1.33	0.05	0.01	0.41	0.026	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	2032	Haul	90	180	25.0	0.01	1.30	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	2033	Haul	132	264	25.0	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	2035	Haul	-	-	25.0	0.01	1.25	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1342.3	0.00	0.21
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	25.0	0.01	1.35	0.05	0.01	0.41	0.026	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparati	7/1/2030	12/31/2032	5	655	10	2030	Haul	2	4	25.0	0.01	1.33	0.05	0.01	0.41	0.026	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations	6/1/2032	10/31/2033	5	370	10	2032	Haul	2	4	25.0	0.01	1.30	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure As	11/1/2033	11/30/2033	5	22	10	2033	Haul	-	-	25.0	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	2033	Haul	-	-	25.0	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	25.0	0.01	1.35	0.05	0.01	0.41	0.026	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	2	4	25.0	0.01	1.33	0.05	0.01	0.41	0.026	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CI	8/1/2032	5/31/2033	5	217	10	2032	Haul	10	20	25.0	0.01	1.30	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assen	5/1/2033	10/31/2033	5	131	10	2033	Haul	-	-	25.0	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Haul	-	-	25.0	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	25.0	0.01	1.35	0.05	0.01	0.41	0.026	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	4	25.0	0.01	1.31	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Haul	2	4	25.0	0.01	1.30	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Haul	-	-	25.0	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Haul	-	-	25.0	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	25.0	0.01	1.35	0.05	0.01	0.41	0.026	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	4	25.0	0.01	1.31	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	2	4	25.0	0.01	1.30	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	25.0	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Haul	-	-	25.0	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	25.0	0.01	1.35	0.05	0.01	0.41	0.026	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	4	25.0	0.01	1.31	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Haul	2	4	25.0	0.01	1.30	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Haul	-	-	25.0	0.01	1.27	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1356.7	0.00	0.21
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Haul	-	-	25.0	0.01	1.27	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1356.7	0.00	0.21
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	25.0	0.01	1.35	0.05	0.01	0.41	0.026	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	4	25.0	0.01	1.31	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Haul	2	4	25.0	0.01	1.30	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Haul	-	-	25.0	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Haul	-	-	25.0	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	25.0	0.01	1.35	0.05	0.01	0.41	0.026	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	4	25.0	0.01	1.31	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	2	4	25.0	0.01	1.30	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Haul	-	-	25.0	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Haul	-	-	25.0	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Haul	-	-	25.0	0.01	1.35	0.05	0.01	0.41	0.026	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Haul	4	8	25.0	0.01	1.33	0.05	0.01	0.41	0.026	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Haul	50	100	25.0	0.01	1.30	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Haul	-	-	25.0	0.01	1.27	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1356.7	0.00	0.21
UCLA Gateway MRT Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Haul	-	-	25.0	0.01	1.24	0.04	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1327.5	0.00	0.21
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Haul	-	-	25.0	0.01	1.35	0.05	0.01	0.41	0.026	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Haul	2	4	25.0	0.01	1.33	0.05	0.01	0.41	0.026	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Haul	84	168	25.0	0.01	1.30	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Haul	-	-	25.0	0.01	1.27	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1356.7	0.00	0.21
Wilshire Blvd-Metro D Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Haul	-	-	25.0	0.01	1.24	0.04	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1327.5	0.00	0.21
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	25.0	0.01	1.35	0.05	0.01	0.41	0.026	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	4	25.0	0.01	1.31	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	2	4	25.0	0.01	1.30	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Haul	-	-	25.0	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Haul	-	-	25.0	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22

Sepulveda Transit Corridor Project - ALTERNATIVE 3

SOIL/MATERIAL HAUL TRUCKS (OFFSITE)

											Non-Running Emission Factor (g/trip)[1,3]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	25.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	6	12	25.0	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.73	0.02	0.12
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Haul	16	32	25.0	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Haul	-	-	25.0	0.37	6.33	5.50	0.007	-	0.002	0.002	-	0.002	0.002	731.19	0.02	0.12
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Haul	-	-	25.0	0.37	6.31	5.54	0.007	-	0.002	0.002	-	0.002	0.002	730.10	0.02	0.12
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	2029	Haul	-	-	25.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	2030	Haul	2	4	25.0	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.73	0.02	0.12
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	2032	Haul	90	180	25.0	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	2033	Haul	132	264	25.0	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	2035	Haul	-	-	25.0	0.37	6.33	5.50	0.007	-	0.002	0.002	-	0.002	0.002	731.19	0.02	0.12
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	25.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparati	7/1/2030	12/31/2032	5	655	10	2030	Haul	2	4	25.0	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.73	0.02	0.12
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations	6/1/2032	10/31/2033	5	370	10	2032	Haul	2	4	25.0	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure As	11/1/2033	11/30/2033	5	22	10	2033	Haul	-	-	25.0	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	2033	Haul	-	-	25.0	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	25.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	2	4	25.0	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.73	0.02	0.12
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CI	8/1/2032	5/31/2033	5	217	10	2032	Haul	10	20	25.0	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assen	5/1/2033	10/31/2033	5	131	10	2033	Haul	-	-	25.0	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Haul	-	-	25.0	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	25.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	4	25.0	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.36	0.02	0.12
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Haul	2	4	25.0	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Haul	-	-	25.0	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Haul	-	-	25.0	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	25.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	4	25.0	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.36	0.02	0.12
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	2	4	25.0	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	25.0	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Haul	-	-	25.0	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	25.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	4	25.0	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.36	0.02	0.12
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Haul	2	4	25.0	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Haul	-	-	25.0	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.19	0.02	0.12
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Haul	-	-	25.0	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.19	0.02	0.12
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	25.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	4	25.0	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.36	0.02	0.12
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Haul	2	4	25.0	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Haul	-	-	25.0	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Haul	-	-	25.0	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	25.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	4	25.0	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.36	0.02	0.12
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	2	4	25.0	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Haul	-	-	25.0	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Haul	-	-	25.0	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Haul	-	-	25.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Haul	4	8	25.0	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.73	0.02	0.12
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Haul	50	100	25.0	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Haul	-	-	25.0	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.19	0.02	0.12
UCLA Gateway MRT Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Haul	-	-	25.0	0.37	6.31	5.54	0.007	-	0.002	0.002	-	0.002	0.002	730.10	0.02	0.12
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Haul	-	-	25.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Haul	2	4	25.0	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.73	0.02	0.12
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Haul	84	168	25.0	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Haul	-	-	25.0	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.19	0.02	0.12
Wilshire Blvd-Metro D Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Haul	-	-	25.0	0.37	6.31	5.54	0.007	-	0.002	0.002	-	0.002	0.002	730.10	0.02	0.12
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	25.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	4	25.0	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.36	0.02	0.12
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	2	4	25.0	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Haul	-	-	25.0	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Haul	-	-	25.0	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12

Sepulveda Transit Corridor Project - ALTERNATIVE 3

SOIL/MATERIAL HAUL TRUCKS (OFFSITE)

											Daily Emissions (lb/day)												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	6	12	25.0	0.02	1.05	0.18	0.01	0.27	0.02	0.29	0.07	0.02	0.09	965	0.00	0.15
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Haul	16	32	25.0	0.05	2.74	0.47	0.02	0.73	0.05	0.78	0.20	0.04	0.24	2503	0.00	0.39
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	2029	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	2030	Haul	2	4	25.0	0.01	0.35	0.06	0.00	0.09	0.01	0.10	0.02	0.01	0.03	322	0.00	0.05
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	2032	Haul	90	180	25.0	0.25	15.40	2.64	0.13	4.12	0.26	4.38	1.11	0.25	1.36	14080	0.01	2.22
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	2033	Haul	132	264	25.0	0.37	22.33	3.86	0.19	6.05	0.38	6.43	1.63	0.36	1.99	20401	0.02	3.21
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	2035	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparati	7/1/2030	12/31/2032	5	655	10	2030	Haul	2	4	25.0	0.01	0.35	0.06	0.00	0.09	0.01	0.10	0.02	0.01	0.03	322	0.00	0.05
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations	6/1/2032	10/31/2033	5	370	10	2032	Haul	2	4	25.0	0.01	0.34	0.06	0.00	0.09	0.01	0.10	0.02	0.01	0.03	313	0.00	0.05
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure As	11/1/2033	11/30/2033	5	22	10	2033	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	2033	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	2	4	25.0	0.01	0.35	0.06	0.00	0.09	0.01	0.10	0.02	0.01	0.03	322	0.00	0.05
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CI	8/1/2032	5/31/2033	5	217	10	2032	Haul	10	20	25.0	0.03	1.71	0.29	0.01	0.46	0.03	0.49	0.12	0.03	0.15	1564	0.00	0.25
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assen	5/1/2033	10/31/2033	5	131	10	2033	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	4	25.0	0.01	0.35	0.06	0.00	0.09	0.01	0.10	0.02	0.01	0.03	317	0.00	0.05
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Haul	2	4	25.0	0.01	0.34	0.06	0.00	0.09	0.01	0.10	0.02	0.01	0.03	313	0.00	0.05
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	4	25.0	0.01	0.35	0.06	0.00	0.09	0.01	0.10	0.02	0.01	0.03	317	0.00	0.05
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	2	4	25.0	0.01	0.34	0.06	0.00	0.09	0.01	0.10	0.02	0.01	0.03	313	0.00	0.05
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	4	25.0	0.01	0.35	0.06	0.00	0.09	0.01	0.10	0.02	0.01	0.03	317	0.00	0.05
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Haul	2	4	25.0	0.01	0.34	0.06	0.00	0.09	0.01	0.10	0.02	0.01	0.03	313	0.00	0.05
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	4	25.0	0.01	0.35	0.06	0.00	0.09	0.01	0.10	0.02	0.01	0.03	317	0.00	0.05
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Haul	2	4	25.0	0.01	0.34	0.06	0.00	0.09	0.01	0.10	0.02	0.01	0.03	313	0.00	0.05
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	4	25.0	0.01	0.35	0.06	0.00	0.09	0.01	0.10	0.02	0.01	0.03	317	0.00	0.05
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	2	4	25.0	0.01	0.34	0.06	0.00	0.09	0.01	0.10	0.02	0.01	0.03	313	0.00	0.05
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Haul	4	8	25.0	0.01	0.70	0.12	0.01	0.18	0.01	0.19	0.05	0.01	0.06	643	0.00	0.10
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Haul	50	100	25.0	0.14	8.55	1.47	0.07	2.29	0.14	2.43	0.62	0.14	0.75	7822	0.01	1.23
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Haul	2	4	25.0	0.01	0.35	0.06	0.00	0.09	0.01	0.10	0.02	0.01	0.03	322	0.00	0.05
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Haul	84	168	25.0	0.24	14.37	2.47	0.12	3.85	0.24	4.09	1.04	0.23	1.27	13141	0.01	2.07
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	4	25.0	0.01	0.35	0.06	0.00	0.09	0.01	0.10	0.02	0.01	0.03	317	0.00	0.05
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	2	4	25.0	0.01	0.34	0.06	0.00	0.09	0.01	0.10	0.02	0.01	0.03	313	0.00	0.05
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 3

SOIL/MATERIAL HAUL TRUCKS (OFFSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Total Emissions (tons)											Total Emissions (metric tons)			
											ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	6	12	25.0	0.01	0.34	0.06	0.00	0.09	0.01	0.10	0.02	0.01	0.03	286.6	0.00	0.05	300.1
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Haul	16	32	25.0	0.02	1.16	0.20	0.01	0.31	0.02	0.33	0.08	0.02	0.10	961.7	0.00	0.15	1006.8
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	2029	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	2030	Haul	2	4	25.0	0.00	0.11	0.02	0.00	0.03	0.00	0.03	0.01	0.00	0.01	95.5	0.00	0.02	100.0
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	2032	Haul	90	180	25.0	0.02	1.19	0.20	0.01	0.32	0.02	0.34	0.09	0.02	0.10	983.5	0.00	0.15	1029.7
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	2033	Haul	132	264	25.0	0.12	7.50	1.30	0.06	2.03	0.13	2.16	0.55	0.12	0.67	6218.4	0.01	0.98	6510.5
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	2035	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparati	7/1/2030	12/31/2032	5	655	10	2030	Haul	2	4	25.0	0.00	0.11	0.02	0.00	0.03	0.00	0.03	0.01	0.00	0.01	95.5	0.00	0.02	100.0
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations	6/1/2032	10/31/2033	5	370	10	2032	Haul	2	4	25.0	0.00	0.06	0.01	0.00	0.02	0.00	0.02	0.00	0.00	0.01	52.5	0.00	0.01	55.0
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure As	11/1/2033	11/30/2033	5	22	10	2033	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	2033	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	2	4	25.0	0.00	0.11	0.02	0.00	0.03	0.00	0.03	0.01	0.00	0.01	95.5	0.00	0.02	100.0
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CI	8/1/2032	5/31/2033	5	217	10	2032	Haul	10	20	25.0	0.00	0.19	0.03	0.00	0.05	0.00	0.05	0.01	0.00	0.02	154.0	0.00	0.02	161.2
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assen	5/1/2033	10/31/2033	5	131	10	2033	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	4	25.0	0.00	0.03	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	28.3	0.00	0.00	29.7
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Haul	2	4	25.0	0.00	0.04	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	33.8	0.00	0.01	35.4
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	4	25.0	0.00	0.03	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	28.3	0.00	0.00	29.7
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	2	4	25.0	0.00	0.03	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	28.0	0.00	0.00	29.3
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	4	25.0	0.00	0.03	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	28.3	0.00	0.00	29.7
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Haul	2	4	25.0	0.00	0.09	0.01	0.00	0.02	0.00	0.02	0.01	0.00	0.01	71.2	0.00	0.01	74.6
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	4	25.0	0.00	0.03	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	28.3	0.00	0.00	29.7
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Haul	2	4	25.0	0.00	0.05	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	40.0	0.00	0.01	41.9
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	4	25.0	0.00	0.03	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	28.3	0.00	0.00	29.7
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	2	4	25.0	0.00	0.03	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	28.0	0.00	0.00	29.3
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Haul	4	8	25.0	0.00	0.19	0.03	0.00	0.05	0.00	0.05	0.01	0.00	0.02	158.7	0.00	0.03	166.1
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Haul	50	100	25.0	0.04	2.23	0.38	0.02	0.60	0.04	0.64	0.16	0.04	0.20	1852.1	0.00	0.29	1939.1
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Haul	2	4	25.0	0.00	0.10	0.02	0.00	0.02	0.00	0.03	0.01	0.00	0.01	79.3	0.00	0.01	83.1
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Haul	84	168	25.0	0.06	3.75	0.64	0.03	1.00	0.06	1.07	0.27	0.06	0.33	3111.5	0.00	0.49	3257.6
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	4	25.0	0.00	0.03	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	28.3	0.00	0.00	29.7
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	2	4	25.0	0.00	0.03	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	28.0	0.00	0.00	29.3
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 3

SOIL/MATERIAL HAUL TRUCKS (OFFSITE)

											Running Emission Factor (g/mile)[1,2]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	25.0	0.01	1.35	0.05	0.01	0.41	0.026	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	4	25.0	0.01	1.31	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Haul	2	4	25.0	0.01	1.30	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Haul	-	-	25.0	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Haul	-	-	25.0	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	25.0	0.01	1.30	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	25.0	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	6	12	25.0	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	25.0	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	25.0	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	25.0	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	25.0	0.01	1.30	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	25.0	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	6	12	25.0	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	25.0	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	25.0	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	25.0	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	25.0	0.01	1.30	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	25.0	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	14	28	25.0	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	25.0	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	25.0	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	25.0	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Haul	-	-	25.0	0.01	1.31	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	2	4	25.0	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Haul	22	44	25.0	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Haul	-	-	25.0	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Haul	-	-	25.0	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Haul	-	-	25.0	0.01	1.27	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1356.7	0.00	0.21
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Haul	2	4	25.0	0.01	1.35	0.05	0.01	0.41	0.026	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Haul	2	4	25.0	0.01	1.35	0.05	0.01	0.41	0.026	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Haul	2	4	25.0	0.01	1.35	0.05	0.01	0.41	0.026	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Haul	2	4	25.0	0.01	1.35	0.05	0.01	0.41	0.026	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Haul	-	-	25.0	0.01	1.35	0.05	0.01	0.41	0.026	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Haul	46	92	25.0	0.01	1.33	0.05	0.01	0.41	0.026	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Haul	36	72	25.0	0.01	1.31	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Haul	34	68	25.0	0.01	1.30	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Haul	2	4	25.0	0.01	1.35	0.05	0.01	0.41	0.026	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Haul	-	-	25.0	0.01	1.35	0.05	0.01	0.41	0.026	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Haul	-	-	25.0	0.01	1.35	0.05	0.01	0.41	0.026	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Haul	-	-	25.0	0.01	1.33	0.05	0.01	0.41	0.026	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Haul	-	-	25.0	0.01	1.33	0.05	0.01	0.41	0.026	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Haul	2	4	25.0	0.01	1.33	0.05	0.01	0.41	0.026	0.44	0.11	0.02	0.14	1428.2	0.00	0.23

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate Speeds; **Fleet Mix:100%** HHDT); **Fuel Type:** Diesel
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 3

SOIL/MATERIAL HAUL TRUCKS (OFFSITE)

											Non-Running Emission Factor (g/trip)[1,3]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	25.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	4	25.0	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.36	0.02	0.12
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Haul	2	4	25.0	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Haul	-	-	25.0	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Haul	-	-	25.0	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	25.0	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	25.0	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	6	12	25.0	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	25.0	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	25.0	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	25.0	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	25.0	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	25.0	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	6	12	25.0	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	25.0	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	25.0	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	25.0	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	25.0	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	25.0	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	14	28	25.0	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	25.0	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	25.0	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	25.0	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Haul	-	-	25.0	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.36	0.02	0.12
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	2	4	25.0	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Haul	22	44	25.0	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Haul	-	-	25.0	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Haul	-	-	25.0	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Haul	-	-	25.0	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.19	0.02	0.12
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Haul	2	4	25.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Haul	2	4	25.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Haul	2	4	25.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Haul	2	4	25.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Haul	-	-	25.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Haul	46	92	25.0	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.73	0.02	0.12
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Haul	36	72	25.0	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.36	0.02	0.12
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Haul	34	68	25.0	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Haul	2	4	25.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Haul	-	-	25.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Haul	-	-	25.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Haul	-	-	25.0	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.73	0.02	0.12
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Haul	-	-	25.0	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.73	0.02	0.12
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Haul	2	4	25.0	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.73	0.02	0.12

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate Speeds; **Fleet Mix:100%** HHDT); **Fuel Type:** Diesel
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 3

SOIL/MATERIAL HAUL TRUCKS (OFFSITE)

											Daily Emissions (lb/day)												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	4	25.0	0.01	0.35	0.06	0.00	0.09	0.01	0.10	0.02	0.01	0.03	317	0.00	0.05
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Haul	2	4	25.0	0.01	0.34	0.06	0.00	0.09	0.01	0.10	0.02	0.01	0.03	313	0.00	0.05
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	6	12	25.0	0.02	1.02	0.18	0.01	0.28	0.02	0.29	0.07	0.02	0.09	927	0.00	0.15
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	6	12	25.0	0.02	1.02	0.18	0.01	0.28	0.02	0.29	0.07	0.02	0.09	927	0.00	0.15
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	14	28	25.0	0.04	2.37	0.41	0.02	0.64	0.04	0.68	0.17	0.04	0.21	2164	0.00	0.34
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	2	4	25.0	0.01	0.34	0.06	0.00	0.09	0.01	0.10	0.02	0.01	0.03	309	0.00	0.05
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Haul	22	44	25.0	0.06	3.72	0.64	0.03	1.01	0.06	1.07	0.27	0.06	0.33	3400	0.00	0.54
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Haul	2	4	25.0	0.01	0.35	0.06	0.00	0.09	0.01	0.10	0.02	0.01	0.03	326	0.00	0.05
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Haul	2	4	25.0	0.01	0.35	0.06	0.00	0.09	0.01	0.10	0.02	0.01	0.03	326	0.00	0.05
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Haul	2	4	25.0	0.01	0.35	0.06	0.00	0.09	0.01	0.10	0.02	0.01	0.03	326	0.00	0.05
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Haul	2	4	25.0	0.01	0.35	0.06	0.00	0.09	0.01	0.10	0.02	0.01	0.03	326	0.00	0.05
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Haul	46	92	25.0	0.13	8.05	1.36	0.07	2.10	0.13	2.23	0.57	0.13	0.69	7396	0.01	1.17
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Haul	36	72	25.0	0.10	6.23	1.06	0.05	1.65	0.10	1.75	0.44	0.10	0.54	5707	0.00	0.90
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Haul	34	68	25.0	0.10	5.82	1.00	0.05	1.56	0.10	1.66	0.42	0.09	0.51	5319	0.00	0.84
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Haul	2	4	25.0	0.01	0.35	0.06	0.00	0.09	0.01	0.10	0.02	0.01	0.03	326	0.00	0.05
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Haul	2	4	25.0	0.01	0.35	0.06	0.00	0.09	0.01	0.10	0.02	0.01	0.03	322	0.00	0.05

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate Speeds; **Fleet Mix:100%** HHDT); **Fuel Type:** Diesel
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 3

SOIL/MATERIAL HAUL TRUCKS (OFFSITE)

											Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	2	4	25.0	0.00	0.03	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	28.3	0.00	0.00	29.7
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Haul	2	4	25.0	0.00	0.04	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	33.8	0.00	0.01	35.4
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	6	12	25.0	0.00	0.02	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	18.1	0.00	0.00	18.9
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	6	12	25.0	0.00	0.02	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	18.1	0.00	0.00	18.9
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	14	28	25.0	0.00	0.05	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	42.2	0.00	0.01	44.2
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	2	4	25.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.0	0.00	0.00	9.4
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Haul	22	44	25.0	0.00	0.12	0.02	0.00	0.03	0.00	0.03	0.01	0.00	0.01	100.2	0.00	0.02	105.0
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Haul	2	4	25.0	0.00	0.02	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	16.3	0.00	0.00	17.0
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Haul	2	4	25.0	0.00	0.03	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	22.8	0.00	0.00	23.9
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Haul	2	4	25.0	0.00	0.02	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	16.3	0.00	0.00	17.0
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Haul	2	4	25.0	0.00	0.03	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	22.8	0.00	0.00	23.9
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Haul	46	92	25.0	0.01	0.88	0.15	0.01	0.23	0.01	0.24	0.06	0.01	0.08	731.3	0.00	0.12	765.7
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Haul	36	72	25.0	0.01	0.61	0.10	0.01	0.16	0.01	0.17	0.04	0.01	0.05	510.0	0.00	0.08	534.0
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Haul	34	68	25.0	0.01	0.70	0.12	0.01	0.19	0.01	0.20	0.05	0.01	0.06	579.0	0.00	0.09	606.2
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Haul	2	4	25.0	0.00	0.02	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	19.2	0.00	0.00	20.1
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Haul	-	-	25.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Haul	2	4	25.0	0.00	0.14	0.02	0.00	0.04	0.00	0.04	0.01	0.00	0.01	114.1	0.00	0.02	119.4

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate Speeds; **Fleet Mix:100%** HHDT); **Fuel Type:** Diesel
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 3

PRECAST HAUL TRUCKS (ONSITE)

											Running Emission Factor (g/mile)[1,2,4]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.007	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	-	-	0.1	0.03	4.62	0.33	0.02	184.10	0.007	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Haul	-	-	0.1	0.03	4.51	0.31	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1831.9	0.00	0.29
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Haul	-	-	0.1	0.03	4.48	0.31	0.02	184.11	0.007	184.12	18.39	0.01	18.40	1810.2	0.00	0.29
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.007	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	2030	Haul	-	-	0.1	0.03	4.62	0.33	0.02	184.10	0.007	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	2033	Haul	20	20	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	2035	Haul	-	-	0.1	0.03	4.51	0.31	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1831.9	0.00	0.29
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.007	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	-	-	0.1	0.03	4.62	0.33	0.02	184.10	0.007	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (CIDI	6/1/2032	10/31/2033	5	370	10	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Assemb	11/1/2033	11/30/2033	5	22	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.007	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	-	-	0.1	0.03	4.62	0.33	0.02	184.10	0.007	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	8/1/2032	5/31/2033	5	217	10	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.007	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	0.1	0.03	4.60	0.33	0.02	184.10	0.007	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.007	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	0.1	0.03	4.60	0.33	0.02	184.10	0.007	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.007	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	0.1	0.03	4.60	0.33	0.02	184.10	0.007	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Haul	-	-	0.1	0.03	4.53	0.31	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1854.7	0.00	0.29
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Haul	-	-	0.1	0.03	4.53	0.31	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1854.7	0.00	0.29
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.007	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	0.1	0.03	4.60	0.33	0.02	184.10	0.007	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.007	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	0.1	0.03	4.60	0.33	0.02	184.10	0.007	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.007	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Haul	-	-	0.1	0.03	4.62	0.33	0.02	184.10	0.007	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Haul	-	-	0.1	0.03	4.53	0.31	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1854.7	0.00	0.29
UCLA Gateway MRT Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Haul	-	-	0.1	0.03	4.48	0.31	0.02	184.11	0.007	184.12	18.39	0.01	18.40	1810.2	0.00	0.29
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.007	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Haul	-	-	0.1	0.03	4.62	0.33	0.02	184.10	0.007	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Haul	-	-	0.1	0.03	4.53	0.31	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1854.7	0.00	0.29
Wilshire Blvd-Metro D Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Haul	-	-	0.1	0.03	4.48	0.31	0.02	184.11	0.007	184.12	18.39	0.01	18.40	1810.2	0.00	0.29
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.007	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	0.1	0.03	4.60	0.33	0.02	184.10	0.007	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30

Sepulveda Transit Corridor Project - ALTERNATIVE 3

PRECAST HAUL TRUCKS (ONSITE)

											Non-Running Emission Factor (g/trip)[1,3]													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	-	-	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.73	0.02	0.12
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Haul	-	-	0.1	0.37	6.33	5.50	0.007	-	0.002	0.002	-	0.002	0.002	731.19	0.02	0.12
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Haul	-	-	0.1	0.37	6.31	5.54	0.007	-	0.002	0.002	-	0.002	0.002	730.10	0.02	0.12
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	2030	Haul	-	-	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.73	0.02	0.12
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	2033	Haul	20	20	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	2035	Haul	-	-	0.1	0.37	6.33	5.50	0.007	-	0.002	0.002	-	0.002	0.002	731.19	0.02	0.12
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	-	-	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.73	0.02	0.12
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (CIDI	6/1/2032	10/31/2033	5	370	10	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Assemb	11/1/2033	11/30/2033	5	22	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	-	-	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.73	0.02	0.12
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	8/1/2032	5/31/2033	5	217	10	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.36	0.02	0.12
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.36	0.02	0.12
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.36	0.02	0.12
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Haul	-	-	0.1	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.19	0.02	0.12
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Haul	-	-	0.1	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.19	0.02	0.12
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.36	0.02	0.12
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.36	0.02	0.12
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Haul	-	-	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.73	0.02	0.12
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Haul	-	-	0.1	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.19	0.02	0.12
UCLA Gateway MRT Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Haul	-	-	0.1	0.37	6.31	5.54	0.007	-	0.002	0.002	-	0.002	0.002	730.10	0.02	0.12
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Haul	-	-	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.73	0.02	0.12
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Haul	-	-	0.1	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.19	0.02	0.12
Wilshire Blvd-Metro D Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Haul	-	-	0.1	0.37	6.31	5.54	0.007	-	0.002	0.002	-	0.002	0.002	730.10	0.02	0.12
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.36	0.02	0.12
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12

Sepulveda Transit Corridor Project - ALTERNATIVE 3

PRECAST HAUL TRUCKS (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	Daily Emissions (lb/day)												
											ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	2033	Haul	20	20	0.1	0.02	0.30	0.24	0.00	0.81	0.00	0.81	0.08	0.00	0.08	40.8	0.00	0.01
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	2035	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (CIDI	6/1/2032	10/31/2033	5	370	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Assemb	11/1/2033	11/30/2033	5	22	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	8/1/2032	5/31/2033	5	217	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 3

PRECAST HAUL TRUCKS (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	Total Emissions (tons) ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	Total Emissions (metric tons) CO_2	CH_4	N_2O	CO_2e
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	2033	Haul	20	20	0.1	0.01	0.10	0.08	0.00	0.27	0.00	0.27	0.03	0.00	0.03	12.4	0.00	0.00	13.0
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	2035	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (CIDI	6/1/2032	10/31/2033	5	370	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Assemb	11/1/2033	11/30/2033	5	22	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	8/1/2032	5/31/2033	5	217	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 3

PRECAST HAUL TRUCKS (ONSITE)

											Running Emission Factor (g/mile)[1,2,4]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.007	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	0.1	0.03	4.60	0.33	0.02	184.10	0.007	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Haul	-	-	0.1	0.03	4.60	0.33	0.02	184.10	0.007	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Haul	-	-	0.1	0.03	4.53	0.31	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1854.7	0.00	0.29
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.007	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.007	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.007	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.007	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.007	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Haul	-	-	0.1	0.03	4.62	0.33	0.02	184.10	0.007	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Haul	-	-	0.1	0.03	4.60	0.33	0.02	184.10	0.007	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.02	184.11	0.007	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.007	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.007	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.007	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Haul	-	-	0.1	0.03	4.62	0.33	0.02	184.10	0.007	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Haul	-	-	0.1	0.03	4.62	0.33	0.02	184.10	0.007	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Haul	4	4	0.1	0.03	4.62	0.33	0.02	184.10	0.007	184.11	18.39	0.01	18.39	1970.4	0.00	0.31

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** 100% HHDT; **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 3

PRECAST HAUL TRUCKS (ONSITE)

											Non-Running Emission Factor (g/trip)[1,3]													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.36	0.02	0.12
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Haul	-	-	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.36	0.02	0.12
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Haul	-	-	0.1	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.19	0.02	0.12
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Haul	-	-	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.73	0.02	0.12
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Haul	-	-	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.36	0.02	0.12
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Haul	-	-	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.73	0.02	0.12
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Haul	-	-	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.73	0.02	0.12
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Haul	4	4	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.73	0.02	0.12

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** 100% HHDT; **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 3

PRECAST HAUL TRUCKS (ONSITE)

											Daily Emissions (lb/day)												
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Hours per Workday**	**EF Year**	**Trip Type**	**Round Trips per Day**	**Daily Onsite Trips**	**One-Way Trip Length (mi)**	**ROG**	**NO_x**	**CO**	**SO_x**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**	**CO_2**	**CH_4**	**N_2O**
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Haul	4	4	0.1	0.00	0.06	0.05	0.00	0.16	0.00	0.16	0.02	0.00	0.02	8.4	0.00	0.00

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** 100% HHDT; **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 3

PRECAST HAUL TRUCKS (ONSITE)

											Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Haul	4	4	0.1	0.00	0.02	0.02	0.00	0.06	0.00	0.06	0.01	0.00	0.01	3.0	0.00	0.00	3.1

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** 100% HHDT; **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 3

PRECAST HAUL TRUCKS (OFFSITE)

											Running Emission Factor (g/mile)[1,2]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	-	0.01	1.35	0.05	0.01	0.41	0.026	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	-	-	-	0.01	1.33	0.05	0.01	0.41	0.026	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Haul	-	-	-	0.01	1.30	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Haul	-	-	-	0.01	1.25	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1342.3	0.00	0.21
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Haul	-	-	-	0.01	1.24	0.04	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1327.5	0.00	0.21
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	2029	Haul	-	-	-	0.01	1.35	0.05	0.01	0.41	0.026	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	2030	Haul	-	-	-	0.01	1.33	0.05	0.01	0.41	0.026	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	2032	Haul	-	-	-	0.01	1.30	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	2033	Haul	20	40	60.0	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	2035	Haul	-	-	-	0.01	1.25	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1342.3	0.00	0.21
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	-	0.01	1.35	0.05	0.01	0.41	0.026	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparatic	7/1/2030	12/31/2032	5	655	10	2030	Haul	-	-	-	0.01	1.33	0.05	0.01	0.41	0.026	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations	6/1/2032	10/31/2033	5	370	10	2032	Haul	-	-	-	0.01	1.30	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure As:	11/1/2033	11/30/2033	5	22	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	-	0.01	1.35	0.05	0.01	0.41	0.026	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	-	-	-	0.01	1.33	0.05	0.01	0.41	0.026	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CII	8/1/2032	5/31/2033	5	217	10	2032	Haul	-	-	-	0.01	1.30	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assem	5/1/2033	10/31/2033	5	131	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	-	0.01	1.35	0.05	0.01	0.41	0.026	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	-	0.01	1.31	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Haul	-	-	-	0.01	1.30	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	-	0.01	1.35	0.05	0.01	0.41	0.026	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	-	0.01	1.31	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	-	-	-	0.01	1.30	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	-	0.01	1.35	0.05	0.01	0.41	0.026	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	-	0.01	1.31	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Haul	-	-	-	0.01	1.30	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Haul	-	-	-	0.01	1.27	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1356.7	0.00	0.21
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Haul	-	-	-	0.01	1.27	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1356.7	0.00	0.21
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	-	0.01	1.35	0.05	0.01	0.41	0.026	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	-	0.01	1.31	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Haul	-	-	-	0.01	1.30	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	-	0.01	1.35	0.05	0.01	0.41	0.026	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	-	0.01	1.31	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	-	-	-	0.01	1.30	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Haul	-	-	-	0.01	1.35	0.05	0.01	0.41	0.026	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Haul	-	-	-	0.01	1.33	0.05	0.01	0.41	0.026	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Haul	-	-	-	0.01	1.30	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Haul	-	-	-	0.01	1.27	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1356.7	0.00	0.21
UCLA Gateway MRT Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Haul	-	-	-	0.01	1.24	0.04	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1327.5	0.00	0.21
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Haul	-	-	-	0.01	1.35	0.05	0.01	0.41	0.026	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Haul	-	-	-	0.01	1.33	0.05	0.01	0.41	0.026	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Haul	-	-	-	0.01	1.30	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Haul	-	-	-	0.01	1.27	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1356.7	0.00	0.21
Wilshire Blvd-Metro D Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Haul	-	-	-	0.01	1.24	0.04	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1327.5	0.00	0.21
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	-	0.01	1.35	0.05	0.01	0.41	0.026	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	-	0.01	1.31	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	-	-	-	0.01	1.30	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22

Sepulveda Transit Corridor Project - ALTERNATIVE 3

PRECAST HAUL TRUCKS (OFFSITE)

											Non-Running Emission Factor (g/trip)[1,3]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	-	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	-	-	-	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.73	0.02	0.12
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Haul	-	-	-	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Haul	-	-	-	0.37	6.33	5.50	0.007	-	0.002	0.002	-	0.002	0.002	731.19	0.02	0.12
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Haul	-	-	-	0.37	6.31	5.54	0.007	-	0.002	0.002	-	0.002	0.002	730.10	0.02	0.12
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	2029	Haul	-	-	-	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	2030	Haul	-	-	-	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.73	0.02	0.12
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	2032	Haul	-	-	-	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	2033	Haul	20	40	60.0	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	2035	Haul	-	-	-	0.37	6.33	5.50	0.007	-	0.002	0.002	-	0.002	0.002	731.19	0.02	0.12
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	-	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparatic	7/1/2030	12/31/2032	5	655	10	2030	Haul	-	-	-	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.73	0.02	0.12
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations	6/1/2032	10/31/2033	5	370	10	2032	Haul	-	-	-	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure As:	11/1/2033	11/30/2033	5	22	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	-	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	-	-	-	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.73	0.02	0.12
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CII	8/1/2032	5/31/2033	5	217	10	2032	Haul	-	-	-	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assem	5/1/2033	10/31/2033	5	131	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	-	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	-	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.36	0.02	0.12
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Haul	-	-	-	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	-	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	-	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.36	0.02	0.12
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	-	-	-	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	-	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	-	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.36	0.02	0.12
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Haul	-	-	-	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Haul	-	-	-	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.19	0.02	0.12
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Haul	-	-	-	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.19	0.02	0.12
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	-	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	-	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.36	0.02	0.12
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Haul	-	-	-	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	-	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	-	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.36	0.02	0.12
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	-	-	-	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Haul	-	-	-	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Haul	-	-	-	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.73	0.02	0.12
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Haul	-	-	-	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Haul	-	-	-	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.19	0.02	0.12
UCLA Gateway MRT Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Haul	-	-	-	0.37	6.31	5.54	0.007	-	0.002	0.002	-	0.002	0.002	730.10	0.02	0.12
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Haul	-	-	-	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Haul	-	-	-	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.73	0.02	0.12
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Haul	-	-	-	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Haul	-	-	-	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.19	0.02	0.12
Wilshire Blvd-Metro D Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Haul	-	-	-	0.37	6.31	5.54	0.007	-	0.002	0.002	-	0.002	0.002	730.10	0.02	0.12
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	-	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	-	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.36	0.02	0.12
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	-	-	-	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12

Sepulveda Transit Corridor Project - ALTERNATIVE 3

PRECAST HAUL TRUCKS (OFFSITE)

											Daily Emissions (lb/day)													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	2030	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	2033	Haul	20	40	60.0	0.09	7.33	0.73	0.07	2.20	0.14	2.34	0.59	0.13	0.72	7327	0.00	1.15
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	2035	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparatic	7/1/2030	12/31/2032	5	655	10	2030	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations	6/1/2032	10/31/2033	5	370	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure As:	11/1/2033	11/30/2033	5	22	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CII	8/1/2032	5/31/2033	5	217	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assem	5/1/2033	10/31/2033	5	131	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 3

PRECAST HAUL TRUCKS (OFFSITE)

											Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	2030	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	2033	Haul	20	40	60.0	0.03	2.46	0.25	0.02	0.74	0.05	0.79	0.20	0.04	0.24	2233.5	0.00	0.35	2338.4
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	2035	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparatic	7/1/2030	12/31/2032	5	655	10	2030	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations	6/1/2032	10/31/2033	5	370	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure As:	11/1/2033	11/30/2033	5	22	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CII	8/1/2032	5/31/2033	5	217	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assem	5/1/2033	10/31/2033	5	131	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 3

PRECAST HAUL TRUCKS (OFFSITE)

											Running Emission Factor (g/mile)[1,2]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	-	0.01	1.35	0.05	0.01	0.41	0.026	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	-	0.01	1.31	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Haul	-	-	-	0.01	1.30	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	-	0.01	1.30	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	-	0.01	1.30	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	-	0.01	1.30	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Haul	-	-	-	0.01	1.31	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Haul	-	-	-	0.01	1.27	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1356.7	0.00	0.21
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Haul	-	-	-	0.01	1.35	0.05	0.01	0.41	0.026	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Haul	-	-	-	0.01	1.35	0.05	0.01	0.41	0.026	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Haul	-	-	-	0.01	1.35	0.05	0.01	0.41	0.026	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Haul	-	-	-	0.01	1.35	0.05	0.01	0.41	0.026	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Haul	-	-	-	0.01	1.35	0.05	0.01	0.41	0.026	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Haul	-	-	-	0.01	1.33	0.05	0.01	0.41	0.026	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Haul	-	-	-	0.01	1.31	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Haul	-	-	-	0.01	1.30	0.05	0.01	0.42	0.026	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Haul	-	-	-	0.01	1.35	0.05	0.01	0.41	0.026	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Haul	-	-	-	0.01	1.35	0.05	0.01	0.41	0.026	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Haul	-	-	-	0.01	1.35	0.05	0.01	0.41	0.026	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Haul	-	-	-	0.01	1.33	0.05	0.01	0.41	0.026	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Haul	-	-	-	0.01	1.33	0.05	0.01	0.41	0.026	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Haul	4	8	69.0	0.01	1.33	0.05	0.01	0.41	0.026	0.44	0.11	0.02	0.14	1428.2	0.00	0.23

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate Speeds; **Fleet Mix:100%** HHDT); **Fuel Type:** Diesel

2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.

3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 3

PRECAST HAUL TRUCKS (OFFSITE)

											Non-Running Emission Factor (g/trip)[1,3]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	-	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	-	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.36	0.02	0.12
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Haul	-	-	-	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	-	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	-	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	-	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Haul	-	-	-	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.36	0.02	0.12
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.30	0.02	0.12
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Haul	-	-	-	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.19	0.02	0.12
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Haul	-	-	-	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Haul	-	-	-	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Haul	-	-	-	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Haul	-	-	-	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Haul	-	-	-	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Haul	-	-	-	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.73	0.02	0.12
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Haul	-	-	-	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.36	0.02	0.12
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Haul	-	-	-	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.62	0.02	0.12
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Haul	-	-	-	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Haul	-	-	-	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Haul	-	-	-	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.17	0.02	0.12
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Haul	-	-	-	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.73	0.02	0.12
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Haul	-	-	-	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.73	0.02	0.12
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Haul	4	8	69.0	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.73	0.02	0.12

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate Speeds; **Fleet Mix:100%** HHDT); **Fuel Type:** Diesel

2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.

3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 3

PRECAST HAUL TRUCKS (OFFSITE)

											Daily Emissions (lb/day)												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Haul	4	8	69.0	0.02	1.73	0.16	0.02	0.50	0.03	0.54	0.14	0.03	0.17	1751	0.00	0.28

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate Speeds; **Fleet Mix:100%** HHDT); **Fuel Type:** Diesel
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 3

PRECAST HAUL TRUCKS (OFFSITE)

											Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Haul	4	8	69.0	0.01	0.68	0.06	0.01	0.20	0.01	0.21	0.05	0.01	0.06	621.3	0.00	0.10	650.4

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate Speeds; **Fleet Mix:100%** HHDT); **Fuel Type:** Diesel
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 3

VENDOR TRUCKS (ONSITE)

											Running Emission Factor (g/mile)[1,2,4]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Onsite Trips	Onsite Trip Length (miles)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Concrete	-	-	0.1	0.02	2.93	0.23	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Concrete	-	-	0.1	0.02	2.89	0.23	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Concrete	24	24	0.1	0.02	2.84	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Concrete	-	-	0.1	0.02	2.76	0.21	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1639.3	0.00	0.26
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Concrete	-	-	0.1	0.02	2.73	0.21	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1623.6	0.00	0.26
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	2029	Concrete	-	-	0.1	0.02	2.93	0.23	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	2030	Concrete	-	-	0.1	0.02	2.89	0.23	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	2032	Concrete	18	18	0.1	0.02	2.84	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	2035	Concrete	-	-	0.1	0.02	2.76	0.21	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1639.3	0.00	0.26
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Concrete	-	-	0.1	0.02	2.93	0.23	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Concrete	-	-	0.1	0.02	2.89	0.23	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (CID	6/1/2032	10/31/2033	5	370	10	2032	Concrete	2	2	0.1	0.02	2.84	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Assemb	11/1/2033	11/30/2033	5	22	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Concrete	-	-	0.1	0.02	2.93	0.23	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Concrete	-	-	0.1	0.02	2.89	0.23	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	8/1/2032	5/31/2033	5	217	10	2032	Concrete	14	14	0.1	0.02	2.84	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	0.1	0.02	2.93	0.23	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	0.1	0.02	2.86	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Concrete	2	2	0.1	0.02	2.84	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	0.1	0.02	2.93	0.23	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	0.1	0.02	2.86	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete	2	2	0.1	0.02	2.84	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	0.1	0.02	2.93	0.23	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	0.1	0.02	2.86	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Concrete	2	2	0.1	0.02	2.84	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Concrete	-	-	0.1	0.02	2.78	0.21	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1655.8	0.00	0.26
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Concrete	-	-	0.1	0.02	2.78	0.21	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1655.8	0.00	0.26
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	0.1	0.02	2.93	0.23	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	0.1	0.02	2.86	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Concrete	2	2	0.1	0.02	2.84	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	0.1	0.02	2.93	0.23	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	0.1	0.02	2.86	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete	2	2	0.1	0.02	2.84	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Concrete	-	-	0.1	0.02	2.93	0.23	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Concrete	-	-	0.1	0.02	2.89	0.23	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Concrete	-	-	0.1	0.02	2.84	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Concrete	12	12	0.1	0.02	2.78	0.21	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1655.8	0.00	0.26
UCLA Gateway MRT Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Concrete	-	-	0.1	0.02	2.73	0.21	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1623.6	0.00	0.26
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Concrete	-	-	0.1	0.02	2.93	0.23	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Concrete	-	-	0.1	0.02	2.89	0.23	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Concrete	-	-	0.1	0.02	2.84	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Concrete	18	18	0.1	0.02	2.78	0.21	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1655.8	0.00	0.26
Wilshire Blvd-Metro D Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Concrete	-	-	0.1	0.02	2.73	0.21	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1623.6	0.00	0.26
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	0.1	0.02	2.93	0.23	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	0.1	0.02	2.86	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete	2	2	0.1	0.02	2.84	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26

Sepulveda Transit Corridor Project - ALTERNATIVE 3

VENDOR TRUCKS (ONSITE)

											Non-Running Emission Factor (g/trip)[1,3]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Onsite Trips	Onsite Trip Length (miles)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Concrete	-	-	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Concrete	-	-	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.43	0.01	0.07
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Concrete	24	24	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Concrete	-	-	0.1	0.19	4.12	3.05	0.004	-	0.001	0.001	-	0.001	0.001	445.53	0.01	0.07
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Concrete	-	-	0.1	0.19	4.09	3.07	0.004	-	0.001	0.001	-	0.001	0.001	444.38	0.01	0.07
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	2029	Concrete	-	-	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	2030	Concrete	-	-	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.43	0.01	0.07
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	2032	Concrete	18	18	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	2035	Concrete	-	-	0.1	0.19	4.12	3.05	0.004	-	0.001	0.001	-	0.001	0.001	445.53	0.01	0.07
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Concrete	-	-	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Concrete	-	-	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.43	0.01	0.07
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (CID	6/1/2032	10/31/2033	5	370	10	2032	Concrete	2	2	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Assemb	11/1/2033	11/30/2033	5	22	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Concrete	-	-	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Concrete	-	-	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.43	0.01	0.07
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	8/1/2032	5/31/2033	5	217	10	2032	Concrete	14	14	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.60	0.01	0.07
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Concrete	2	2	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.60	0.01	0.07
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete	2	2	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.60	0.01	0.07
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Concrete	2	2	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Concrete	-	-	0.1	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.64	0.01	0.07
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Concrete	-	-	0.1	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.64	0.01	0.07
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.60	0.01	0.07
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Concrete	2	2	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.60	0.01	0.07
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete	2	2	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Concrete	-	-	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Concrete	-	-	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.43	0.01	0.07
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Concrete	-	-	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Concrete	12	12	0.1	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.64	0.01	0.07
UCLA Gateway MRT Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Concrete	-	-	0.1	0.19	4.09	3.07	0.004	-	0.001	0.001	-	0.001	0.001	444.38	0.01	0.07
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Concrete	-	-	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Concrete	-	-	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.43	0.01	0.07
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Concrete	-	-	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Concrete	18	18	0.1	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.64	0.01	0.07
Wilshire Blvd-Metro D Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Concrete	-	-	0.1	0.19	4.09	3.07	0.004	-	0.001	0.001	-	0.001	0.001	444.38	0.01	0.07
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.60	0.01	0.07
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete	2	2	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07

Sepulveda Transit Corridor Project - ALTERNATIVE 3

VENDOR TRUCKS (ONSITE)

											Daily Emissions (lb/day)												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Onsite Trips	Onsite Trip Length (miles)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Concrete	24	24	0.1	0.01	0.24	0.16	0.00	0.97	0.00	0.97	0.10	0.00	0.10	33.0	0.00	0.01
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	2032	Concrete	18	18	0.1	0.01	0.18	0.12	0.00	0.73	0.00	0.73	0.07	0.00	0.07	24.7	0.00	0.00
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	2035	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (CID	6/1/2032	10/31/2033	5	370	10	2032	Concrete	2	2	0.1	0.00	0.02	0.01	0.00	0.08	0.00	0.08	0.01	0.00	0.01	2.7	0.00	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Assemb	11/1/2033	11/30/2033	5	22	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	8/1/2032	5/31/2033	5	217	10	2032	Concrete	14	14	0.1	0.01	0.14	0.09	0.00	0.57	0.00	0.57	0.06	0.00	0.06	19.2	0.00	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Concrete	2	2	0.1	0.00	0.02	0.01	0.00	0.08	0.00	0.08	0.01	0.00	0.01	2.7	0.00	0.00
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete	2	2	0.1	0.00	0.02	0.01	0.00	0.08	0.00	0.08	0.01	0.00	0.01	2.7	0.00	0.00
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Concrete	2	2	0.1	0.00	0.02	0.01	0.00	0.08	0.00	0.08	0.01	0.00	0.01	2.7	0.00	0.00
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Concrete	2	2	0.1	0.00	0.02	0.01	0.00	0.08	0.00	0.08	0.01	0.00	0.01	2.7	0.00	0.00
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete	2	2	0.1	0.00	0.02	0.01	0.00	0.08	0.00	0.08	0.01	0.00	0.01	2.7	0.00	0.00
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Concrete	12	12	0.1	0.01	0.12	0.08	0.00	0.49	0.00	0.49	0.05	0.00	0.05	16.2	0.00	0.00
UCLA Gateway MRT Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Concrete	18	18	0.1	0.01	0.18	0.12	0.00	0.73	0.00	0.73	0.07	0.00	0.07	24.3	0.00	0.00
Wilshire Blvd-Metro D Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete	2	2	0.1	0.00	0.02	0.01	0.00	0.08	0.00	0.08	0.01	0.00	0.01	2.7	0.00	0.00
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 3

VENDOR TRUCKS (ONSITE)

											Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Onsite Trips	Onsite Trip Length (miles)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Concrete	24	24	0.1	0.00	0.10	0.07	0.00	0.41	0.00	0.41	0.04	0.00	0.04	12.7	0.00	0.00	13.3
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	2032	Concrete	18	18	0.1	0.00	0.01	0.01	0.00	0.06	0.00	0.06	0.01	0.00	0.01	1.7	0.00	0.00	1.8
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	2035	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (CID	6/1/2032	10/31/2033	5	370	10	2032	Concrete	2	2	0.1	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.5	0.00	0.00	0.5
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Assemb	11/1/2033	11/30/2033	5	22	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	8/1/2032	5/31/2033	5	217	10	2032	Concrete	14	14	0.1	0.00	0.02	0.01	0.00	0.06	0.00	0.06	0.01	0.00	0.01	1.9	0.00	0.00	2.0
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Concrete	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.3
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Concrete	2	2	0.1	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.6	0.00	0.00	0.7
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Concrete	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.3
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Concrete	12	12	0.1	0.00	0.03	0.02	0.00	0.13	0.00	0.13	0.01	0.00	0.01	4.0	0.00	0.00	4.2
UCLA Gateway MRT Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Concrete	18	18	0.1	0.00	0.05	0.03	0.00	0.20	0.00	0.20	0.02	0.00	0.02	6.0	0.00	0.00	6.3
Wilshire Blvd-Metro D Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.3
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 3

VENDOR TRUCKS (ONSITE)

											Running Emission Factor (g/mile)[1,2,4]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Onsite Trips	Onsite Trip Length (miles)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	0.1	0.02	2.93	0.23	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	0.1	0.02	2.86	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Concrete	2	2	0.1	0.02	2.84	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Concrete	-	-	0.1	0.02	2.84	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Concrete	2	2	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Concrete	-	-	0.1	0.02	2.84	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Concrete	2	2	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Concrete	-	-	0.1	0.02	2.84	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Concrete	2	2	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Concrete	-	-	0.1	0.02	2.86	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Concrete	52	52	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Concrete	-	-	0.1	0.02	2.78	0.21	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1655.8	0.00	0.26
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Concrete	2	2	0.1	0.02	2.93	0.23	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Concrete	2	2	0.1	0.02	2.93	0.23	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Concrete	2	2	0.1	0.02	2.93	0.23	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Concrete	2	2	0.1	0.02	2.93	0.23	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Concrete	-	-	0.1	0.02	2.93	0.23	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Concrete	-	-	0.1	0.02	2.89	0.23	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Concrete	-	-	0.1	0.02	2.86	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Concrete	26	26	0.1	0.02	2.84	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Concrete	-	-	0.1	0.02	2.93	0.23	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Concrete	-	-	0.1	0.02	2.93	0.23	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Concrete	16	16	0.1	0.02	2.93	0.23	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Concrete	-	-	0.1	0.02	2.89	0.23	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Concrete	-	-	0.1	0.02	2.89	0.23	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Concrete	-	-	0.1	0.02	2.89	0.23	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1735.3	0.00	0.27

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** Heavy Duty-Mix (50% MHDT/50% HHDT); **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 3

VENDOR TRUCKS (ONSITE)

											Non-Running Emission Factor (g/trip)[1,3]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Onsite Trips	Onsite Trip Length (miles)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.60	0.01	0.07
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Concrete	2	2	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Concrete	-	-	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Concrete	2	2	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Concrete	-	-	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Concrete	2	2	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Concrete	-	-	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Concrete	2	2	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Concrete	-	-	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.60	0.01	0.07
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Concrete	52	52	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Concrete	-	-	0.1	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.64	0.01	0.07
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Concrete	2	2	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Concrete	2	2	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Concrete	2	2	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Concrete	2	2	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Concrete	-	-	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Concrete	-	-	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.43	0.01	0.07
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Concrete	-	-	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.60	0.01	0.07
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Concrete	26	26	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Concrete	-	-	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Concrete	-	-	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Concrete	16	16	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Concrete	-	-	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.43	0.01	0.07
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Concrete	-	-	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.43	0.01	0.07
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Concrete	-	-	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.43	0.01	0.07

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** Heavy Duty-Mix (50% MHDT/50% HHDT); **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 3

VENDOR TRUCKS (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Onsite Trips	Onsite Trip Length (miles)	Daily Emissions (lb/day)													
											ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Concrete	2	2	0.1	0.00	0.02	0.01	0.00	0.08	0.00	0.08	0.01	0.00	0.01	2.7	0.00	0.00
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Concrete	2	2	0.1	0.00	0.02	0.01	0.00	0.08	0.00	0.08	0.01	0.00	0.01	2.7	0.00	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Concrete	2	2	0.1	0.00	0.02	0.01	0.00	0.08	0.00	0.08	0.01	0.00	0.01	2.7	0.00	0.00
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Concrete	2	2	0.1	0.00	0.02	0.01	0.00	0.08	0.00	0.08	0.01	0.00	0.01	2.7	0.00	0.00
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Concrete	52	52	0.1	0.02	0.51	0.35	0.00	2.11	0.00	2.11	0.21	0.00	0.21	70.8	0.00	0.01
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Concrete	2	2	0.1	0.00	0.02	0.01	0.00	0.08	0.00	0.08	0.01	0.00	0.01	2.8	0.00	0.00
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Concrete	2	2	0.1	0.00	0.02	0.01	0.00	0.08	0.00	0.08	0.01	0.00	0.01	2.8	0.00	0.00
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Concrete	2	2	0.1	0.00	0.02	0.01	0.00	0.08	0.00	0.08	0.01	0.00	0.01	2.8	0.00	0.00
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Concrete	2	2	0.1	0.00	0.02	0.01	0.00	0.08	0.00	0.08	0.01	0.00	0.01	2.8	0.00	0.00
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Concrete	26	26	0.1	0.01	0.26	0.17	0.00	1.05	0.00	1.06	0.11	0.00	0.11	35.7	0.00	0.01
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Concrete	16	16	0.1	0.01	0.16	0.10	0.00	0.63	0.00	0.63	0.06	0.00	0.06	22.1	0.00	0.00
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** Heavy Duty-Mix (50% MHDT/50% HHDT); **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 3

VENDOR TRUCKS (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Onsite Trips	Onsite Trip Length (miles)	Total Emissions (tons) ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	Total Emissions (metric tons) CO_2	CH_4	N_2O	CO_2e
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Concrete	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Concrete	2	2	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Concrete	2	2	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Concrete	2	2	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Concrete	52	52	0.1	0.00	0.01	0.01	0.00	0.05	0.00	0.05	0.00	0.00	0.00	1.4	0.00	0.00	1.5
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Concrete	2	2	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Concrete	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.2
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Concrete	2	2	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Concrete	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.2
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Concrete	26	26	0.1	0.00	0.03	0.02	0.00	0.13	0.00	0.13	0.01	0.00	0.01	3.9	0.00	0.00	4.1
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Concrete	16	16	0.1	0.00	0.01	0.01	0.00	0.03	0.00	0.03	0.00	0.00	0.00	1.1	0.00	0.00	1.1
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** Heavy Duty-Mix (50% MHDT/50% HHDT); **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 3

VENDOR TRUCKS (OFFSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Running Emission Factor (g/mile)[1,2] ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Concrete	-	-	10.2	0.01	0.89	0.05	0.01	0.38	0.015	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Concrete	-	-	10.2	0.01	0.87	0.05	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Concrete	24	48	10.2	0.01	0.84	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Concrete	-	-	10.2	0.01	0.79	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1182.1	0.00	0.19
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Concrete	-	-	10.2	0.01	0.78	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1171.5	0.00	0.18
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	2029	Concrete	-	-	10.2	0.01	0.89	0.05	0.01	0.38	0.015	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	2030	Concrete	-	-	10.2	0.01	0.87	0.05	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	2032	Concrete	18	36	10.2	0.01	0.84	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	2035	Concrete	-	-	10.2	0.01	0.79	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1182.1	0.00	0.19
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Concrete	-	-	10.2	0.01	0.89	0.05	0.01	0.38	0.015	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparati	7/1/2030	12/31/2032	5	655	10	2030	Concrete	-	-	10.2	0.01	0.87	0.05	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations	6/1/2032	10/31/2033	5	370	10	2032	Concrete	2	4	10.2	0.01	0.84	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure As	11/1/2033	11/30/2033	5	22	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Concrete	-	-	10.2	0.01	0.89	0.05	0.01	0.38	0.015	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Concrete	-	-	10.2	0.01	0.87	0.05	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CI	8/1/2032	5/31/2033	5	217	10	2032	Concrete	14	28	10.2	0.01	0.84	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assen	5/1/2033	10/31/2033	5	131	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	10.2	0.01	0.89	0.05	0.01	0.38	0.015	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	10.2	0.01	0.85	0.05	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Concrete	2	4	10.2	0.01	0.84	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	10.2	0.01	0.89	0.05	0.01	0.38	0.015	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	10.2	0.01	0.85	0.05	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete	2	4	10.2	0.01	0.84	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	10.2	0.01	0.89	0.05	0.01	0.38	0.015	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	10.2	0.01	0.85	0.05	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Concrete	2	4	10.2	0.01	0.84	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Concrete	-	-	10.2	0.01	0.81	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1192.3	0.00	0.19
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Concrete	-	-	10.2	0.01	0.81	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1192.3	0.00	0.19
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	10.2	0.01	0.89	0.05	0.01	0.38	0.015	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	10.2	0.01	0.85	0.05	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Concrete	2	4	10.2	0.01	0.84	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	10.2	0.01	0.89	0.05	0.01	0.38	0.015	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	10.2	0.01	0.85	0.05	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete	2	4	10.2	0.01	0.84	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Concrete	-	-	10.2	0.01	0.89	0.05	0.01	0.38	0.015	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Concrete	-	-	10.2	0.01	0.87	0.05	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Concrete	-	-	10.2	0.01	0.84	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Concrete	12	24	10.2	0.01	0.81	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1192.3	0.00	0.19
UCLA Gateway MRT Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Concrete	-	-	10.2	0.01	0.78	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1171.5	0.00	0.18
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Concrete	-	-	10.2	0.01	0.89	0.05	0.01	0.38	0.015	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Concrete	-	-	10.2	0.01	0.87	0.05	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Concrete	-	-	10.2	0.01	0.84	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Concrete	18	36	10.2	0.01	0.81	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1192.3	0.00	0.19
Wilshire Blvd-Metro D Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Concrete	-	-	10.2	0.01	0.78	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1171.5	0.00	0.18
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	10.2	0.01	0.89	0.05	0.01	0.38	0.015	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	10.2	0.01	0.85	0.05	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete	2	4	10.2	0.01	0.84	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19

Sepulveda Transit Corridor Project - ALTERNATIVE 3

VENDOR TRUCKS (OFFSITE)

											Non-Running Emission Factor (g/trip)[1,3]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Concrete	-	-	10.2	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Concrete	-	-	10.2	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.43	0.01	0.07
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Concrete	24	48	10.2	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Concrete	-	-	10.2	0.19	4.12	3.05	0.004	-	0.001	0.001	-	0.001	0.001	445.53	0.01	0.07
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Concrete	-	-	10.2	0.19	4.09	3.07	0.004	-	0.001	0.001	-	0.001	0.001	444.38	0.01	0.07
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	2029	Concrete	-	-	10.2	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	2030	Concrete	-	-	10.2	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.43	0.01	0.07
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	2032	Concrete	18	36	10.2	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	2035	Concrete	-	-	10.2	0.19	4.12	3.05	0.004	-	0.001	0.001	-	0.001	0.001	445.53	0.01	0.07
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Concrete	-	-	10.2	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparati	7/1/2030	12/31/2032	5	655	10	2030	Concrete	-	-	10.2	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.43	0.01	0.07
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations	6/1/2032	10/31/2033	5	370	10	2032	Concrete	2	4	10.2	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure As	11/1/2033	11/30/2033	5	22	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Concrete	-	-	10.2	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Concrete	-	-	10.2	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.43	0.01	0.07
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CI	8/1/2032	5/31/2033	5	217	10	2032	Concrete	14	28	10.2	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assen	5/1/2033	10/31/2033	5	131	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	10.2	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	10.2	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.60	0.01	0.07
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Concrete	2	4	10.2	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	10.2	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	10.2	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.60	0.01	0.07
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete	2	4	10.2	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	10.2	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	10.2	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.60	0.01	0.07
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Concrete	2	4	10.2	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Concrete	-	-	10.2	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.64	0.01	0.07
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Concrete	-	-	10.2	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.64	0.01	0.07
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	10.2	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	10.2	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.60	0.01	0.07
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Concrete	2	4	10.2	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	10.2	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	10.2	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.60	0.01	0.07
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete	2	4	10.2	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Concrete	-	-	10.2	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Concrete	-	-	10.2	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.43	0.01	0.07
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Concrete	-	-	10.2	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Concrete	12	24	10.2	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.64	0.01	0.07
UCLA Gateway MRT Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Concrete	-	-	10.2	0.19	4.09	3.07	0.004	-	0.001	0.001	-	0.001	0.001	444.38	0.01	0.07
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Concrete	-	-	10.2	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Concrete	-	-	10.2	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.43	0.01	0.07
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Concrete	-	-	10.2	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Concrete	18	36	10.2	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.64	0.01	0.07
Wilshire Blvd-Metro D Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Concrete	-	-	10.2	0.19	4.09	3.07	0.004	-	0.001	0.001	-	0.001	0.001	444.38	0.01	0.07
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	10.2	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	10.2	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.60	0.01	0.07
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete	2	4	10.2	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07

Sepulveda Transit Corridor Project - ALTERNATIVE 3

VENDOR TRUCKS (OFFSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Daily Emissions (lb/day)													
											ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Concrete	24	48	10.2	0.03	1.35	0.37	0.01	0.42	0.02	0.43	0.11	0.02	0.13	1360	0.00	0.21
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	2030	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	2032	Concrete	18	36	10.2	0.02	1.01	0.28	0.01	0.31	0.01	0.32	0.08	0.01	0.09	1020	0.00	0.16
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	2035	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparati	7/1/2030	12/31/2032	5	655	10	2030	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations	6/1/2032	10/31/2033	5	370	10	2032	Concrete	2	4	10.2	0.00	0.11	0.03	0.00	0.03	0.00	0.04	0.01	0.00	0.01	113	0.00	0.02
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure As	11/1/2033	11/30/2033	5	22	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CI	8/1/2032	5/31/2033	5	217	10	2032	Concrete	14	28	10.2	0.02	0.79	0.21	0.01	0.24	0.01	0.25	0.06	0.01	0.07	793	0.00	0.12
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assen	5/1/2033	10/31/2033	5	131	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Concrete	2	4	10.2	0.00	0.11	0.03	0.00	0.03	0.00	0.04	0.01	0.00	0.01	113	0.00	0.02
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete	2	4	10.2	0.00	0.11	0.03	0.00	0.03	0.00	0.04	0.01	0.00	0.01	113	0.00	0.02
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Concrete	2	4	10.2	0.00	0.11	0.03	0.00	0.03	0.00	0.04	0.01	0.00	0.01	113	0.00	0.02
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Concrete	2	4	10.2	0.00	0.11	0.03	0.00	0.03	0.00	0.04	0.01	0.00	0.01	113	0.00	0.02
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete	2	4	10.2	0.00	0.11	0.03	0.00	0.03	0.00	0.04	0.01	0.00	0.01	113	0.00	0.02
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Concrete	12	24	10.2	0.01	0.66	0.18	0.01	0.21	0.01	0.22	0.06	0.01	0.06	667	0.00	0.11
UCLA Gateway MRT Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Concrete	18	36	10.2	0.02	0.98	0.28	0.01	0.31	0.01	0.32	0.08	0.01	0.09	1001	0.00	0.16
Wilshire Blvd-Metro D Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete	2	4	10.2	0.00	0.11	0.03	0.00	0.03	0.00	0.04	0.01	0.00	0.01	113	0.00	0.02
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 3

VENDOR TRUCKS (OFFSITE)

											Total Emissions (tons)											Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Concrete	24	48	10.2	0.01	0.57	0.16	0.01	0.18	0.01	0.18	0.05	0.01	0.05	522.3	0.00	0.08	546.9
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	2030	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	2032	Concrete	18	36	10.2	0.00	0.08	0.02	0.00	0.02	0.00	0.02	0.01	0.00	0.01	71.2	0.00	0.01	74.6
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	2035	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparati	7/1/2030	12/31/2032	5	655	10	2030	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations	6/1/2032	10/31/2033	5	370	10	2032	Concrete	2	4	10.2	0.00	0.02	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	19.0	0.00	0.00	19.9
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure As	11/1/2033	11/30/2033	5	22	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CI	8/1/2032	5/31/2033	5	217	10	2032	Concrete	14	28	10.2	0.00	0.09	0.02	0.00	0.03	0.00	0.03	0.01	0.00	0.01	78.1	0.00	0.01	81.7
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assen	5/1/2033	10/31/2033	5	131	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Concrete	2	4	10.2	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.2	0.00	0.00	12.8
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete	2	4	10.2	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.1	0.00	0.00	10.6
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Concrete	2	4	10.2	0.00	0.03	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	25.8	0.00	0.00	27.0
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Concrete	2	4	10.2	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	14.5	0.00	0.00	15.2
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete	2	4	10.2	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.1	0.00	0.00	10.6
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Concrete	12	24	10.2	0.00	0.18	0.05	0.00	0.06	0.00	0.06	0.02	0.00	0.02	164.0	0.00	0.03	171.7
UCLA Gateway MRT Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Concrete	18	36	10.2	0.01	0.27	0.07	0.00	0.08	0.00	0.09	0.02	0.00	0.03	246.0	0.00	0.04	257.6
Wilshire Blvd-Metro D Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Concrete	2	4	10.2	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.1	0.00	0.00	10.6
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 3

VENDOR TRUCKS (OFFSITE)

										Running Emission Factor (g/mile)[1,2]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	10.2	0.01	0.89	0.05	0.01	0.38	0.015	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	10.2	0.01	0.85	0.05	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Concrete	2	4	10.2	0.01	0.84	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Concrete	-	-	10.2	0.01	0.84	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Concrete	2	4	10.2	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Concrete	-	-	10.2	0.01	0.84	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Concrete	2	4	10.2	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Concrete	-	-	10.2	0.01	0.84	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Concrete	2	4	10.2	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Concrete	-	-	10.2	0.01	0.85	0.05	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Concrete	52	104	10.2	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Concrete	-	-	10.2	0.01	0.81	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1192.3	0.00	0.19
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Concrete	2	4	10.2	0.01	0.89	0.05	0.01	0.38	0.015	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Concrete	2	4	10.2	0.01	0.89	0.05	0.01	0.38	0.015	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Concrete	2	4	10.2	0.01	0.89	0.05	0.01	0.38	0.015	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Concrete	2	4	10.2	0.01	0.89	0.05	0.01	0.38	0.015	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Concrete	-	-	10.2	0.01	0.89	0.05	0.01	0.38	0.015	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Concrete	-	-	10.2	0.01	0.87	0.05	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Concrete	-	-	10.2	0.01	0.85	0.05	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Concrete	26	52	10.2	0.01	0.84	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Concrete	-	-	10.2	0.01	0.89	0.05	0.01	0.38	0.015	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Concrete	-	-	10.2	0.01	0.89	0.05	0.01	0.38	0.015	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Concrete	16	31	10.2	0.01	0.89	0.05	0.01	0.38	0.015	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Concrete	-	-	10.2	0.01	0.87	0.05	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Concrete	-	-	10.2	0.01	0.87	0.05	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Concrete	-	-	10.2	0.01	0.87	0.05	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1240.9	0.00	0.20

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate; **Fleet Mix:** Heavy Duty-Mix (50% MHDT/50% HHDT); **Fuel Type:** Diesel

2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.

3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 3

VENDOR TRUCKS (OFFSITE)

										Non-Running Emission Factor (g/trip)[1,3]												
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Hours per Workday**	**EF Year**	**Trip Type**	**Round Trips per Day**	**Total One-Way Trips per Day**	**One-Way Trip Length (mi)**	**ROG**	**NO_X**	**CO**	**SO_X**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**	**CO_2**	**CH_4**	**N_2O**
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	10.2	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	10.2	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.60	0.01	0.07
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Concrete	2	4	10.2	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Concrete	-	-	10.2	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Concrete	2	4	10.2	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Concrete	-	-	10.2	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Concrete	2	4	10.2	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Concrete	-	-	10.2	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Concrete	2	4	10.2	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Concrete	-	-	10.2	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.60	0.01	0.07
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Concrete	52	104	10.2	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Concrete	-	-	10.2	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.64	0.01	0.07
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Concrete	2	4	10.2	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Concrete	2	4	10.2	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Concrete	2	4	10.2	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Concrete	2	4	10.2	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Concrete	-	-	10.2	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Concrete	-	-	10.2	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.43	0.01	0.07
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Concrete	-	-	10.2	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.60	0.01	0.07
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Concrete	26	52	10.2	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Concrete	-	-	10.2	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Concrete	-	-	10.2	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Concrete	16	31	10.2	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Concrete	-	-	10.2	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.43	0.01	0.07
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Concrete	-	-	10.2	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.43	0.01	0.07
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Concrete	-	-	10.2	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.43	0.01	0.07

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate; **Fleet Mix:** Heavy Duty-Mix (50% MHDT/50% HHDT); **Fuel Type:** Diesel

2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.

3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 3

VENDOR TRUCKS (OFFSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Daily Emissions (lb/day)												
											ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Concrete	2	4	10.2	0.00	0.11	0.03	0.00	0.03	0.00	0.04	0.01	0.00	0.01	113	0.00	0.02
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Concrete	2	4	10.2	0.00	0.11	0.03	0.00	0.03	0.00	0.04	0.01	0.00	0.01	112	0.00	0.02
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Concrete	2	4	10.2	0.00	0.11	0.03	0.00	0.03	0.00	0.04	0.01	0.00	0.01	112	0.00	0.02
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Concrete	2	4	10.2	0.00	0.11	0.03	0.00	0.03	0.00	0.04	0.01	0.00	0.01	112	0.00	0.02
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Concrete	52	104	10.2	0.06	2.88	0.80	0.03	0.90	0.04	0.94	0.24	0.03	0.27	2918	0.00	0.46
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Concrete	2	4	10.2	0.00	0.12	0.03	0.00	0.03	0.00	0.04	0.01	0.00	0.01	117	0.00	0.02
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Concrete	2	4	10.2	0.00	0.12	0.03	0.00	0.03	0.00	0.04	0.01	0.00	0.01	117	0.00	0.02
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Concrete	2	4	10.2	0.00	0.12	0.03	0.00	0.03	0.00	0.04	0.01	0.00	0.01	117	0.00	0.02
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Concrete	2	4	10.2	0.00	0.12	0.03	0.00	0.03	0.00	0.04	0.01	0.00	0.01	117	0.00	0.02
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Concrete	26	52	10.2	0.03	1.46	0.40	0.01	0.45	0.02	0.47	0.12	0.02	0.14	1473	0.00	0.23
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Concrete	16	31	10.2	0.02	0.92	0.24	0.01	0.27	0.01	0.28	0.07	0.01	0.08	909	0.00	0.14
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate; **Fleet Mix:** Heavy Duty-Mix (50% MHDT/50% HHDT); **Fuel Type:** Diesel

2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.

3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 3

VENDOR TRUCKS (OFFSITE)

											Total Emissions (tons)											Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Concrete	2	4	10.2	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.2	0.00	0.00	12.8
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Concrete	2	4	10.2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.2	0.00	0.00	2.3
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Concrete	2	4	10.2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.2	0.00	0.00	2.3
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Concrete	2	4	10.2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.2	0.00	0.00	2.3
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Concrete	52	104	10.2	0.00	0.06	0.02	0.00	0.02	0.00	0.02	0.01	0.00	0.01	58.2	0.00	0.01	61.0
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Concrete	2	4	10.2	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.8	0.00	0.00	6.1
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Concrete	2	4	10.2	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.2	0.00	0.00	8.6
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Concrete	2	4	10.2	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.8	0.00	0.00	6.1
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Concrete	2	4	10.2	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.2	0.00	0.00	8.6
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Concrete	26	52	10.2	0.00	0.18	0.05	0.00	0.05	0.00	0.06	0.01	0.00	0.02	160.3	0.00	0.03	167.9
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Concrete	16	31	10.2	0.00	0.05	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	44.1	0.00	0.01	46.2
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate; **Fleet Mix:** Heavy Duty-Mix (50% MHDT/50% HHDT); **Fuel Type:** Diesel

2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.

3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 3

WATER TRUCKS (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	Running Emission Factor (g/mile)[1,2,4] ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Water	3	3	0.1	0.02	2.89	0.23	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Water	3	3	0.1	0.02	2.84	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Water	3	3	0.1	0.02	2.76	0.21	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1639.3	0.00	0.26
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Water	3	3	0.1	0.02	2.73	0.21	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1623.6	0.00	0.26
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	2030	Water	3	3	0.1	0.02	2.89	0.23	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	2032	Water	3	3	0.1	0.02	2.84	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	2035	Water	3	3	0.1	0.02	2.76	0.21	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1639.3	0.00	0.26
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparati	7/1/2030	12/31/2032	5	655	10	2030	Water	3	3	0.1	0.02	2.89	0.23	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations	6/1/2032	10/31/2033	5	370	10	2032	Water	3	3	0.1	0.02	2.84	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure As	11/1/2033	11/30/2033	5	22	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Water	3	3	0.1	0.02	2.89	0.23	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CI	8/1/2032	5/31/2033	5	217	10	2032	Water	3	3	0.1	0.02	2.84	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assen	5/1/2033	10/31/2033	5	131	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	3	0.1	0.02	2.86	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Water	3	3	0.1	0.02	2.84	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	3	0.1	0.02	2.86	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Water	3	3	0.1	0.02	2.84	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	3	0.1	0.02	2.86	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Water	3	3	0.1	0.02	2.84	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Water	3	3	0.1	0.02	2.78	0.21	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1655.8	0.00	0.26
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Water	3	3	0.1	0.02	2.78	0.21	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1655.8	0.00	0.26
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	3	0.1	0.02	2.86	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Water	3	3	0.1	0.02	2.84	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	3	0.1	0.02	2.86	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Water	3	3	0.1	0.02	2.84	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Water	3	3	0.1	0.02	2.89	0.23	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Water	3	3	0.1	0.02	2.84	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Water	3	3	0.1	0.02	2.78	0.21	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1655.8	0.00	0.26
UCLA Gateway MRT Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Water	3	3	0.1	0.02	2.73	0.21	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1623.6	0.00	0.26
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Water	3	3	0.1	0.02	2.89	0.23	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Water	3	3	0.1	0.02	2.84	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Water	3	3	0.1	0.02	2.78	0.21	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1655.8	0.00	0.26
Wilshire Blvd-Metro D Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Water	3	3	0.1	0.02	2.73	0.21	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1623.6	0.00	0.26
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	3	0.1	0.02	2.86	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Water	3	3	0.1	0.02	2.84	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26

Sepulveda Transit Corridor Project - ALTERNATIVE 3

WATER TRUCKS (ONSITE)

											Non-Running Emission Factor (g/trip)[1,3]													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Water	3	3	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.43	0.01	0.07
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Water	3	3	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Water	3	3	0.1	0.19	4.12	3.05	0.004	-	0.001	0.001	-	0.001	0.001	445.53	0.01	0.07
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Water	3	3	0.1	0.19	4.09	3.07	0.004	-	0.001	0.001	-	0.001	0.001	444.38	0.01	0.07
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	2030	Water	3	3	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.43	0.01	0.07
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	2032	Water	3	3	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	2033	Water	3	3	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	2035	Water	3	3	0.1	0.19	4.12	3.05	0.004	-	0.001	0.001	-	0.001	0.001	445.53	0.01	0.07
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparati	7/1/2030	12/31/2032	5	655	10	2030	Water	3	3	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.43	0.01	0.07
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations	6/1/2032	10/31/2033	5	370	10	2032	Water	3	3	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure As	11/1/2033	11/30/2033	5	22	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Water	3	3	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.43	0.01	0.07
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CI	8/1/2032	5/31/2033	5	217	10	2032	Water	3	3	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assen	5/1/2033	10/31/2033	5	131	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	3	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.60	0.01	0.07
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Water	3	3	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	3	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.60	0.01	0.07
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Water	3	3	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	3	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.60	0.01	0.07
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Water	3	3	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Water	3	3	0.1	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.64	0.01	0.07
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Water	3	3	0.1	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.64	0.01	0.07
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	3	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.60	0.01	0.07
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Water	3	3	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	3	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.60	0.01	0.07
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Water	3	3	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Water	3	3	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.43	0.01	0.07
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Water	3	3	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Water	3	3	0.1	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.64	0.01	0.07
UCLA Gateway MRT Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Water	3	3	0.1	0.19	4.09	3.07	0.004	-	0.001	0.001	-	0.001	0.001	444.38	0.01	0.07
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Water	3	3	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.43	0.01	0.07
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Water	3	3	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Water	3	3	0.1	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.64	0.01	0.07
Wilshire Blvd-Metro D Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Water	3	3	0.1	0.19	4.09	3.07	0.004	-	0.001	0.001	-	0.001	0.001	444.38	0.01	0.07
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	3	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.60	0.01	0.07
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Water	3	3	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07

Sepulveda Transit Corridor Project - ALTERNATIVE 3

WATER TRUCKS (ONSITE)

											Daily Emissions (lb/day)												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.0	0.00	0.00
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.0	0.00	0.00
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	2030	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	2032	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	2035	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.0	0.00	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparati	7/1/2030	12/31/2032	5	655	10	2030	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations	6/1/2032	10/31/2033	5	370	10	2032	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure As	11/1/2033	11/30/2033	5	22	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CI	8/1/2032	5/31/2033	5	217	10	2032	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assen	5/1/2033	10/31/2033	5	131	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
UCLA Gateway MRT Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.0	0.00	0.00
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Wilshire Blvd-Metro D Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.0	0.00	0.00
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 3

WATER TRUCKS (ONSITE)

											Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Water	3	3	0.1	0.00	0.02	0.01	0.00	0.06	0.00	0.06	0.01	0.00	0.01	2.0	0.00	0.00	2.1
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	1.2	0.00	0.00	1.3
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.05	0.00	0.05	0.01	0.00	0.01	1.6	0.00	0.00	1.7
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	2029	Water	3	3	0.1	0.00	0.02	0.01	0.00	0.06	0.00	0.06	0.01	0.00	0.01	2.0	0.00	0.00	2.1
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	2030	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	1.2	0.00	0.00	1.3
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	2032	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	2033	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	1.2	0.00	0.00	1.3
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	2035	Water	3	3	0.1	0.00	0.01	0.00	0.00	0.03	0.00	0.03	0.00	0.00	0.00	0.8	0.00	0.00	0.8
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Water	3	3	0.1	0.00	0.02	0.01	0.00	0.06	0.00	0.06	0.01	0.00	0.01	2.0	0.00	0.00	2.1
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparati	7/1/2030	12/31/2032	5	655	10	2030	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	1.2	0.00	0.00	1.3
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations	6/1/2032	10/31/2033	5	370	10	2032	Water	3	3	0.1	0.00	0.01	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.7	0.00	0.00	0.7
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure As	11/1/2033	11/30/2033	5	22	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.0
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Water	3	3	0.1	0.00	0.02	0.01	0.00	0.06	0.00	0.06	0.01	0.00	0.01	2.0	0.00	0.00	2.1
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	1.2	0.00	0.00	1.3
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CI	8/1/2032	5/31/2033	5	217	10	2032	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assen	5/1/2033	10/31/2033	5	131	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.3
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	1.3	0.00	0.00	1.3
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.5
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.0
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.03	0.00	0.03	0.00	0.00	0.00	0.9	0.00	0.00	1.0
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	1.3	0.00	0.00	1.3
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Water	3	3	0.1	0.00	0.01	0.00	0.00	0.03	0.00	0.03	0.00	0.00	0.00	0.8	0.00	0.00	0.8
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	1.3	0.00	0.00	1.3
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.03	0.00	0.03	0.00	0.00	0.00	0.9	0.00	0.00	1.0
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Water	3	3	0.1	0.00	0.01	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.7	0.00	0.00	0.7
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	1.3	0.00	0.00	1.3
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.5	0.00	0.00	0.6
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.6	0.00	0.00	0.6
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	1.3	0.00	0.00	1.3
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.5	0.00	0.00	0.5
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.05	0.00	0.05	0.00	0.00	0.00	1.6	0.00	0.00	1.6
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.03	0.00	0.03	0.00	0.00	0.00	1.0	0.00	0.00	1.1
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.03	0.00	0.03	0.00	0.00	0.00	1.0	0.00	0.00	1.0
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.03	0.00	0.03	0.00	0.00	0.00	1.0	0.00	0.00	1.0
UCLA Gateway MRT Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Water	3	3	0.1	0.00	0.01	0.00	0.00	0.03	0.00	0.03	0.00	0.00	0.00	0.8	0.00	0.00	0.8
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.05	0.00	0.05	0.00	0.00	0.00	1.6	0.00	0.00	1.6
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.03	0.00	0.03	0.00	0.00	0.00	1.0	0.00	0.00	1.1
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.03	0.00	0.03	0.00	0.00	0.00	1.0	0.00	0.00	1.0
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.03	0.00	0.03	0.00	0.00	0.00	1.0	0.00	0.00	1.0
Wilshire Blvd-Metro D Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Water	3	3	0.1	0.00	0.01	0.00	0.00	0.03	0.00	0.03	0.00	0.00	0.00	0.8	0.00	0.00	0.8
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	1.3	0.00	0.00	1.3
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.3
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.6	0.00	0.00	0.6

Sepulveda Transit Corridor Project - ALTERNATIVE 3

WATER TRUCKS (ONSITE)

											Running Emission Factor (g/mile)[1,2,4]													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	3	0.1	0.02	2.86	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Water	3	3	0.1	0.02	2.84	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Water	3	3	0.1	0.02	2.84	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Water	3	3	0.1	0.02	2.84	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Water	3	3	0.1	0.02	2.84	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Water	3	3	0.1	0.02	2.86	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Water	3	3	0.1	0.02	2.78	0.21	0.02	184.05	0.005	184.06	18.37	0.00	18.38	1655.8	0.00	0.26
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Water	3	3	0.1	0.02	2.89	0.23	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Water	3	3	0.1	0.02	2.86	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Water	3	3	0.1	0.02	2.84	0.22	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Water	3	3	0.1	0.02	2.89	0.23	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Water	3	3	0.1	0.02	2.89	0.23	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Water	3	3	0.1	0.02	2.89	0.23	0.02	184.05	0.005	184.06	18.37	0.00	18.37	1735.3	0.00	0.27

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** Heavy Duty-Mix (50% MHDT/50% HHDT); **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 3

WATER TRUCKS (ONSITE)

											Non-Running Emission Factor (g/trip)[1,3]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	3	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.60	0.01	0.07
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Water	3	3	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Water	3	3	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Water	3	3	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Water	3	3	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Water	3	3	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.60	0.01	0.07
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Water	3	3	0.1	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.64	0.01	0.07
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Water	3	3	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.43	0.01	0.07
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Water	3	3	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.60	0.01	0.07
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Water	3	3	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Water	3	3	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.43	0.01	0.07
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Water	3	3	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.43	0.01	0.07
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Water	3	3	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.43	0.01	0.07

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** Heavy Duty-Mix (50% MHDT/50% HHDT); **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 3

WATER TRUCKS (ONSITE)

											Daily Emissions (lb/day)												
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Hours per Workday**	**EF Year**	**Trip Type**	**Round Trips per Day**	**Daily Onsite Trips**	**One-Way Trip Length (mi)**	**ROG**	**NO_X**	**CO**	**SO_X**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**	**CO_2**	**CH_4**	**N_2O**
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** Heavy Duty-Mix (50% MHDT/50% HHDT); **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 3

WATER TRUCKS (ONSITE)

											Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	1.3	0.00	0.00	1.3
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.5
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Water	3	3	0.1	0.00	0.01	0.00	0.00	0.03	0.00	0.03	0.00	0.00	0.00	0.9	0.00	0.00	0.9
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.0
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.0
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.0
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.0
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.0
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.0
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Water	3	3	0.1	0.00	0.01	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.7	0.00	0.00	0.8
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.3
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Water	3	3	0.1	0.00	0.01	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.8	0.00	0.00	0.8
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.5
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.05	0.00	0.05	0.00	0.00	0.00	1.5	0.00	0.00	1.6

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** Heavy Duty-Mix (50% MHDT/50% HHDT); **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 3

WATER TRUCKS (OFFSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Running Emission Factor (g/mile)[1,2,4] ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Water	3	6	2.0	0.01	0.89	0.05	0.01	0.38	0.015	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Water	3	6	2.0	0.01	0.87	0.05	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Water	3	6	2.0	0.01	0.84	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Water	3	6	2.0	0.01	0.79	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1182.1	0.00	0.19
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Water	3	6	2.0	0.01	0.78	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1171.5	0.00	0.18
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	2029	Water	3	6	2.0	0.01	0.89	0.05	0.01	0.38	0.015	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	2030	Water	3	6	2.0	0.01	0.87	0.05	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	2032	Water	3	6	2.0	0.01	0.84	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	2033	Water	3	6	2.0	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	2035	Water	3	6	2.0	0.01	0.79	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1182.1	0.00	0.19
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Water	3	6	2.0	0.01	0.89	0.05	0.01	0.38	0.015	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Water	3	6	2.0	0.01	0.87	0.05	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (CIE	6/1/2032	10/31/2033	5	370	10	2032	Water	3	6	2.0	0.01	0.84	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Assem	11/1/2033	11/30/2033	5	22	10	2033	Water	3	6	2.0	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	2033	Water	3	6	2.0	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Water	3	6	2.0	0.01	0.89	0.05	0.01	0.38	0.015	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Water	3	6	2.0	0.01	0.87	0.05	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	8/1/2032	5/31/2033	5	217	10	2032	Water	3	6	2.0	0.01	0.84	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	2033	Water	3	6	2.0	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Water	3	6	2.0	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	6	2.0	0.01	0.89	0.05	0.01	0.38	0.015	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	6	2.0	0.01	0.85	0.05	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Water	3	6	2.0	0.01	0.84	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Water	3	6	2.0	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Water	3	6	2.0	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	6	2.0	0.01	0.89	0.05	0.01	0.38	0.015	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	6	2.0	0.01	0.85	0.05	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Water	3	6	2.0	0.01	0.84	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Water	3	6	2.0	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Water	3	6	2.0	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	6	2.0	0.01	0.89	0.05	0.01	0.38	0.015	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	6	2.0	0.01	0.85	0.05	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Water	3	6	2.0	0.01	0.84	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Water	3	6	2.0	0.01	0.81	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1192.3	0.00	0.19
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Water	3	6	2.0	0.01	0.81	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1192.3	0.00	0.19
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	6	2.0	0.01	0.89	0.05	0.01	0.38	0.015	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	6	2.0	0.01	0.85	0.05	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Water	3	6	2.0	0.01	0.84	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Water	3	6	2.0	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Water	3	6	2.0	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	6	2.0	0.01	0.89	0.05	0.01	0.38	0.015	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	6	2.0	0.01	0.85	0.05	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Water	3	6	2.0	0.01	0.84	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Water	3	6	2.0	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Water	3	6	2.0	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Water	3	6	2.0	0.01	0.89	0.05	0.01	0.38	0.015	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Water	3	6	2.0	0.01	0.87	0.05	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Water	3	6	2.0	0.01	0.84	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Water	3	6	2.0	0.01	0.81	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1192.3	0.00	0.19
UCLA Gateway MRT Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Water	3	6	2.0	0.01	0.78	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1171.5	0.00	0.18
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Water	3	6	2.0	0.01	0.89	0.05	0.01	0.38	0.015	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Water	3	6	2.0	0.01	0.87	0.05	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Water	3	6	2.0	0.01	0.84	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Water	3	6	2.0	0.01	0.81	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1192.3	0.00	0.19
Wilshire Blvd-Metro D Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Water	3	6	2.0	0.01	0.78	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1171.5	0.00	0.18
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	6	2.0	0.01	0.89	0.05	0.01	0.38	0.015	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	6	2.0	0.01	0.85	0.05	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Water	3	6	2.0	0.01	0.84	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Water	3	6	2.0	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Water	3	6	2.0	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19

Sepulveda Transit Corridor Project - ALTERNATIVE 3

WATER TRUCKS (OFFSITE)

											Non-Running Emission Factor (g/trip)[1,3]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Water	3	6	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Water	3	6	2.0	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.43	0.01	0.07
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Water	3	6	2.0	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Water	3	6	2.0	0.19	4.12	3.05	0.004	-	0.001	0.001	-	0.001	0.001	445.53	0.01	0.07
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Water	3	6	2.0	0.19	4.09	3.07	0.004	-	0.001	0.001	-	0.001	0.001	444.38	0.01	0.07
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	2029	Water	3	6	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	2030	Water	3	6	2.0	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.43	0.01	0.07
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	2032	Water	3	6	2.0	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	2033	Water	3	6	2.0	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	2035	Water	3	6	2.0	0.19	4.12	3.05	0.004	-	0.001	0.001	-	0.001	0.001	445.53	0.01	0.07
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Water	3	6	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Water	3	6	2.0	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.43	0.01	0.07
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (CIE	6/1/2032	10/31/2033	5	370	10	2032	Water	3	6	2.0	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Assem	11/1/2033	11/30/2033	5	22	10	2033	Water	3	6	2.0	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	2033	Water	3	6	2.0	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Water	3	6	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Water	3	6	2.0	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.43	0.01	0.07
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	8/1/2032	5/31/2033	5	217	10	2032	Water	3	6	2.0	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	2033	Water	3	6	2.0	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Water	3	6	2.0	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	6	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	6	2.0	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.60	0.01	0.07
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Water	3	6	2.0	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Water	3	6	2.0	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Water	3	6	2.0	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	6	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	6	2.0	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.60	0.01	0.07
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Water	3	6	2.0	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Water	3	6	2.0	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Water	3	6	2.0	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	6	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	6	2.0	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.60	0.01	0.07
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Water	3	6	2.0	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Water	3	6	2.0	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.64	0.01	0.07
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Water	3	6	2.0	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.64	0.01	0.07
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	6	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	6	2.0	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.60	0.01	0.07
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Water	3	6	2.0	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Water	3	6	2.0	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Water	3	6	2.0	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	6	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	6	2.0	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.60	0.01	0.07
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Water	3	6	2.0	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Water	3	6	2.0	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Water	3	6	2.0	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Water	3	6	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Water	3	6	2.0	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.43	0.01	0.07
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Water	3	6	2.0	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Water	3	6	2.0	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.64	0.01	0.07
UCLA Gateway MRT Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Water	3	6	2.0	0.19	4.09	3.07	0.004	-	0.001	0.001	-	0.001	0.001	444.38	0.01	0.07
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Water	3	6	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Water	3	6	2.0	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.43	0.01	0.07
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Water	3	6	2.0	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Water	3	6	2.0	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.64	0.01	0.07
Wilshire Blvd-Metro D Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Water	3	6	2.0	0.19	4.09	3.07	0.004	-	0.001	0.001	-	0.001	0.001	444.38	0.01	0.07
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	6	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	6	2.0	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.60	0.01	0.07
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Water	3	6	2.0	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Water	3	6	2.0	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Water	3	6	2.0	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07

Sepulveda Transit Corridor Project - ALTERNATIVE 3

WATER TRUCKS (OFFSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Daily Emissions (lb/day)													
											ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37	0.00	0.01
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Water	3	6	2.0	0.00	0.07	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37	0.00	0.01
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	2029	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	2030	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	2032	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	2033	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	2035	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37	0.00	0.01
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (CIE	6/1/2032	10/31/2033	5	370	10	2032	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Assem	11/1/2033	11/30/2033	5	22	10	2033	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	2033	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	8/1/2032	5/31/2033	5	217	10	2032	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	2033	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37	0.00	0.01
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37	0.00	0.01
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37	0.00	0.01
UCLA Gateway MRT Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Water	3	6	2.0	0.00	0.07	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37	0.00	0.01
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37	0.00	0.01
Wilshire Blvd-Metro D Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Water	3	6	2.0	0.00	0.07	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37	0.00	0.01
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01

Sepulveda Transit Corridor Project - ALTERNATIVE 3

WATER TRUCKS (OFFSITE)

											Total Emissions (tons)											Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Water	3	6	2.0	0.00	0.04	0.02	0.00	0.01	0.00	0.01	0.00	0.00	0.00	18.7	0.00	0.00	19.5
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Water	3	6	2.0	0.00	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.6	0.00	0.00	12.1
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	2032	Water	3	6	2.0	0.00	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.7	0.00	0.00	15.3
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	2035	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.9	0.00	0.00	3.1
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	2036	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.7	0.00	0.00	0.8
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	2029	Water	3	6	2.0	0.00	0.04	0.02	0.00	0.01	0.00	0.01	0.00	0.00	0.00	18.7	0.00	0.00	19.5
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	2030	Water	3	6	2.0	0.00	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.6	0.00	0.00	12.1
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	2032	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.7	0.00	0.00	2.8
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	2033	Water	3	6	2.0	0.00	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.5	0.00	0.00	12.1
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	2035	Water	3	6	2.0	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.0	0.00	0.00	7.3
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Water	3	6	2.0	0.00	0.04	0.02	0.00	0.01	0.00	0.01	0.00	0.00	0.00	18.7	0.00	0.00	19.5
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Water	3	6	2.0	0.00	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.6	0.00	0.00	12.1
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (CIE	6/1/2032	10/31/2033	5	370	10	2032	Water	3	6	2.0	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.4	0.00	0.00	6.7
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Assem	11/1/2033	11/30/2033	5	22	10	2033	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.4	0.00	0.00	0.4
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	2033	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.8	0.00	0.00	0.8
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	2029	Water	3	6	2.0	0.00	0.04	0.02	0.00	0.01	0.00	0.01	0.00	0.00	0.00	18.7	0.00	0.00	19.5
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	2030	Water	3	6	2.0	0.00	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.6	0.00	0.00	12.1
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	8/1/2032	5/31/2033	5	217	10	2032	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.8	0.00	0.00	3.9
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	2033	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.2	0.00	0.00	2.4
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	2033	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.8	0.00	0.00	0.8
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	6	2.0	0.00	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.6	0.00	0.00	12.2
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.4	0.00	0.00	3.6
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.1	0.00	0.00	4.3
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	2033	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.4	0.00	0.00	0.4
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	2033	Water	3	6	2.0	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.6	0.00	0.00	9.0
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	6	2.0	0.00	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.6	0.00	0.00	12.2
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.4	0.00	0.00	3.6
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.4	0.00	0.00	3.6
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	2033	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.1	0.00	0.00	1.1
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	2033	Water	3	6	2.0	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.1	0.00	0.00	7.4
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	6	2.0	0.00	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.6	0.00	0.00	12.2
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.4	0.00	0.00	3.6
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	2032	Water	3	6	2.0	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.7	0.00	0.00	9.1
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	2034	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.4	0.00	0.00	1.5
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	2034	Water	3	6	2.0	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.3	0.00	0.00	6.6
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	6	2.0	0.00	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.6	0.00	0.00	12.2
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.4	0.00	0.00	3.6
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	2032	Water	3	6	2.0	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.9	0.00	0.00	5.1
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	2033	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.9	0.00	0.00	2.0
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	2033	Water	3	6	2.0	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.6	0.00	0.00	5.8
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	6	2.0	0.00	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.6	0.00	0.00	12.2
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.4	0.00	0.00	3.6
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.4	0.00	0.00	3.6
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	2033	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.8	0.00	0.00	1.9
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	2033	Water	3	6	2.0	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.5	0.00	0.00	4.7
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Water	3	6	2.0	0.00	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.4	0.00	0.00	15.1
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Water	3	6	2.0	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.6	0.00	0.00	10.1
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Water	3	6	2.0	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.0	0.00	0.00	9.5
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Water	3	6	2.0	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.2	0.00	0.00	9.6
UCLA Gateway MRT Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Water	3	6	2.0	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.3	0.00	0.00	7.6
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	2029	Water	3	6	2.0	0.00	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.4	0.00	0.00	15.1
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	2030	Water	3	6	2.0	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.6	0.00	0.00	10.1
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	2032	Water	3	6	2.0	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.0	0.00	0.00	9.5
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	2034	Water	3	6	2.0	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.2	0.00	0.00	9.6
Wilshire Blvd-Metro D Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	2036	Water	3	6	2.0	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.3	0.00	0.00	7.6
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	6	2.0	0.00	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.6	0.00	0.00	12.2
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.4	0.00	0.00	3.6
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	2032	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.4	0.00	0.00	3.6
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	2033	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.2	0.00	0.00	2.3
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	2033	Water	3	6	2.0	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.6	0.00	0.00	5.9

Sepulveda Transit Corridor Project - ALTERNATIVE 3

WATER TRUCKS (OFFSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Running Emission Factor (g/mile)[1,2,4] ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	6	2.0	0.01	0.89	0.05	0.01	0.38	0.015	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	6	2.0	0.01	0.85	0.05	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Water	3	6	2.0	0.01	0.84	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Water	3	6	2.0	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Water	3	6	2.0	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Water	3	6	2.0	0.01	0.84	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	6	2.0	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Water	3	6	2.0	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Water	3	6	2.0	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Water	3	6	2.0	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Water	3	6	2.0	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Water	3	6	2.0	0.01	0.84	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	6	2.0	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Water	3	6	2.0	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Water	3	6	2.0	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Water	3	6	2.0	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Water	3	6	2.0	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Water	3	6	2.0	0.01	0.84	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	6	2.0	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Water	3	6	2.0	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Water	3	6	2.0	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Water	3	6	2.0	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Water	3	6	2.0	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Water	3	6	2.0	0.01	0.85	0.05	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	6	2.0	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Water	3	6	2.0	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Water	3	6	2.0	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Water	3	6	2.0	0.01	0.82	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Water	3	6	2.0	0.01	0.81	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1192.3	0.00	0.19
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Water	3	6	2.0	0.01	0.89	0.05	0.01	0.38	0.015	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Water	3	6	2.0	0.01	0.89	0.05	0.01	0.38	0.015	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Water	3	6	2.0	0.01	0.89	0.05	0.01	0.38	0.015	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Water	3	6	2.0	0.01	0.89	0.05	0.01	0.38	0.015	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Water	3	6	2.0	0.01	0.89	0.05	0.01	0.38	0.015	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Water	3	6	2.0	0.01	0.87	0.05	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Water	3	6	2.0	0.01	0.85	0.05	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Water	3	6	2.0	0.01	0.84	0.04	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Water	3	6	5.0	0.01	0.89	0.05	0.01	0.38	0.015	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Water	3	6	5.0	0.01	0.89	0.05	0.01	0.38	0.015	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Water	3	6	5.0	0.01	0.89	0.05	0.01	0.38	0.015	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Water	3	6	5.0	0.01	0.87	0.05	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Water	3	6	5.0	0.01	0.87	0.05	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Water	3	6	5.0	0.01	0.87	0.05	0.01	0.39	0.015	0.40	0.10	0.01	0.12	1240.9	0.00	0.20

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate Speeds; **Fleet Mix:100%** HHDT); **Fuel Type:** Diesel
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 3

WATER TRUCKS (OFFSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Non-Running Emission Factor (g/trip)[1,3] ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	6	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	6	2.0	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.60	0.01	0.07
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Water	3	6	2.0	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Water	3	6	2.0	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Water	3	6	2.0	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Water	3	6	2.0	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	6	2.0	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Water	3	6	2.0	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Water	3	6	2.0	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Water	3	6	2.0	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Water	3	6	2.0	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Water	3	6	2.0	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	6	2.0	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Water	3	6	2.0	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Water	3	6	2.0	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Water	3	6	2.0	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Water	3	6	2.0	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Water	3	6	2.0	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	6	2.0	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Water	3	6	2.0	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Water	3	6	2.0	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Water	3	6	2.0	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Water	3	6	2.0	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Water	3	6	2.0	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.60	0.01	0.07
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	6	2.0	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Water	3	6	2.0	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Water	3	6	2.0	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Water	3	6	2.0	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.32	0.01	0.07
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Water	3	6	2.0	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.64	0.01	0.07
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Water	3	6	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Water	3	6	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Water	3	6	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Water	3	6	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Water	3	6	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Water	3	6	2.0	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.43	0.01	0.07
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Water	3	6	2.0	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.60	0.01	0.07
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Water	3	6	2.0	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.60	0.01	0.07
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Water	3	6	5.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Water	3	6	5.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Water	3	6	5.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.25	0.01	0.07
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Water	3	6	5.0	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.43	0.01	0.07
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Water	3	6	5.0	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.43	0.01	0.07
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Water	3	6	5.0	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.43	0.01	0.07

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate Speeds; **Fleet Mix:100%** HHDT); **Fuel Type:** Diesel

2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.

3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 3

WATER TRUCKS (OFFSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Daily Emissions (lb/day)													
											ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37	0.00	0.01
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Water	3	6	5.0	0.00	0.12	0.04	0.00	0.03	0.00	0.03	0.01	0.00	0.01	89	0.00	0.01
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Water	3	6	5.0	0.00	0.12	0.04	0.00	0.03	0.00	0.03	0.01	0.00	0.01	89	0.00	0.01
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Water	3	6	5.0	0.00	0.12	0.04	0.00	0.03	0.00	0.03	0.01	0.00	0.01	89	0.00	0.01
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Water	3	6	5.0	0.00	0.11	0.04	0.00	0.03	0.00	0.03	0.01	0.00	0.01	88	0.00	0.01
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Water	3	6	5.0	0.00	0.11	0.04	0.00	0.03	0.00	0.03	0.01	0.00	0.01	88	0.00	0.01
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Water	3	6	5.0	0.00	0.11	0.04	0.00	0.03	0.00	0.03	0.01	0.00	0.01	88	0.00	0.01

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate Speeds; **Fleet Mix:100%** HHDT); **Fuel Type:** Diesel
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 3

WATER TRUCKS (OFFSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Total Emissions (tons)											Total Emissions (metric tons)			
											ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	2029	Water	3	6	2.0	0.00	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.6	0.00	0.00	12.2
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	2031	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.4	0.00	0.00	3.6
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	2032	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.1	0.00	0.00	4.3
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	2033	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.1	0.00	0.00	1.2
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	2033	Water	3	6	2.0	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.2	0.00	0.00	8.6
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.0	0.00	0.00	3.2
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.1	0.00	0.00	1.1
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.7	0.00	0.00	0.8
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.7	0.00	0.00	0.8
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.4	0.00	0.00	0.4
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	2033	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.4	0.00	0.00	0.4
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.0	0.00	0.00	3.2
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.1	0.00	0.00	1.1
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.7	0.00	0.00	0.8
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.7	0.00	0.00	0.8
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.4	0.00	0.00	0.4
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	2033	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.4	0.00	0.00	0.4
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	2032	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.0	0.00	0.00	3.2
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.1	0.00	0.00	1.1
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	2033	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.7	0.00	0.00	0.8
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	2033	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.7	0.00	0.00	0.8
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	2033	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.4	0.00	0.00	0.4
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	2033	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.4	0.00	0.00	0.4
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	2031	Water	3	6	2.0	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.9	0.00	0.00	7.2
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	2033	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.1	0.00	0.00	1.1
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	2033	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.1	0.00	0.00	1.2
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	2033	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.8	0.00	0.00	0.8
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	2033	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.2	0.00	0.00	2.3
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	2034	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.7	0.00	0.00	0.8
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.0	0.00	0.00	2.1
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.8	0.00	0.00	2.9
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	2029	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.0	0.00	0.00	2.1
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	2029	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.8	0.00	0.00	2.9
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	2029	Water	3	6	2.0	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.0	0.00	0.00	7.3
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	2030	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.9	0.00	0.00	4.0
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	2031	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.4	0.00	0.00	3.6
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	2032	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.2	0.00	0.00	4.3
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	2029	Water	3	6	5.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.3	0.00	0.00	5.5
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	2029	Water	3	6	5.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.4	0.00	0.00	4.7
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	2029	Water	3	6	5.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.3	0.00	0.00	4.5
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	2030	Water	3	6	5.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.7	0.00	0.00	1.8
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	2030	Water	3	6	5.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.6	0.00	0.00	2.8
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	2030	Water	3	6	5.0	0.00	0.04	0.02	0.00	0.01	0.00	0.01	0.00	0.00	0.00	31.3	0.00	0.00	32.8

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate Speeds; **Fleet Mix:100%** HHDT); **Fuel Type:** Diesel
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 3

ARCHITECTURAL COATINGS-NON-RESIDENTIAL BUILDINGS (ONSITE)

									Non-Residential Interior						Non-Residential Exterior							
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	Coating Type	Building Area (SF)	VOC Content (g/L)	Interior EF (lb VOC/SF)	Fraction of Surface Area	Surface Area Factor	Interior Surface Area (SF)	Interior Emissions (lbs)	VOC Content (g/L)	Exterior EF (lb VOC/SF)	Fraction of Surface Area	Surface Area Factor	Exterior Surface Area (SF)	Exterior Emissions (lbs)	Total ROG Emissions (tons)	Daily ROG Emissions (lb/day)
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (CIDH	6/1/2032	10/31/2033	5	370	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Assembly	11/1/2033	11/30/2033	5	22	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	8/1/2032	5/31/2033	5	217	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	5/1/2033	10/31/2033	5	131	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
UCLA Gateway MRT Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
Wilshire Blvd-Metro D Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 3

ARCHITECTURAL COATINGS-NON-RESIDENTIAL BUILDINGS (ONSITE)

								Non-Residential Interior						Non-Residential Exterior							
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	Coating Type	Building Area (SF)	VOC Content (g/L)	Interior EF (lb VOC/SF)	Fraction of Surface Area	Surface Area Factor	Interior Surface Area (SF)	Interior Emissions (lbs)	VOC Content (g/L)	Exterior EF (lb VOC/SF)	Fraction of Surface Area	Surface Area Factor	Exterior Surface Area (SF)	Exterior Emissions (lbs)	Total ROG Emissions (tons)	Daily ROG Emissions (lb/day)
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	Non-Residential	4375.00	100.00	0.00464	75%	2.0	6562.50	30.42	100.00	0.00464	25%	2.0	2187.50	10.14	0.020	1.764
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	Non-Residential	4375.00	100.00	0.00464	75%	2.0	6562.50	30.42	100.00	0.00464	25%	2.0	2187.50	10.14	0.020	1.764
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	Non-Residential	2325.00	100.00	0.00464	75%	2.0	3487.50	16.17	100.00	0.00464	25%	2.0	1162.50	5.39	0.011	0.937
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	Non-Residential	81000.00	100.00	0.00464	75%	2.0	########	563.25	100.00	0.00464	25%	2.0	40500.00	187.75	0.376	5.822
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	Non-Residential	20000.00	100.00	0.00464	75%	2.0	30000.00	139.08	100.00	0.00464	25%	2.0	10000.00	46.36	0.093	1.733
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	Non-Residential	-	100.00	0.00464	75%	2.0	-	-	100.00	0.00464	25%	2.0	-	-	-	-

Notes:

1. VOC content values based on CalEEMod default values.
2. Emissions calculated in accordance with CalEEMod methodology.

Sepulveda Transit Corridor Project - ALTERNATIVE 3
ARCHITECTURAL COATINGS-PARKING (ONSITE)

								Parking Paved Area					
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Hours per Workday**	**Coating Type**	**Parking Area (SF)**	**VOC Content (g/L)**	**Parking EF (lb VOC/SF)**	**% of Parking Area Painted**	**Parking Area to Be Painted (SF)**	**Total ROG Emissions (tons)**	**Daily ROG Emissions (lb/day)**
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Parking	-	100	0.00464	6%	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Parking	-	100	0.00464	6%	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	Parking	-	100	0.00464	6%	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	Parking	-	100	0.00464	6%	-	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	Parking	-	100	0.00464	6%	-	-	-
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	Parking	-	100	0.00464	6%	-	-	-
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	Parking	-	100	0.00464	6%	-	-	-
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	Parking	-	100	0.00464	6%	-	-	-
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	Parking	-	100	0.00464	6%	-	-	-
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	Parking	-	100	0.00464	6%	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Parking	-	100	0.00464	6%	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparatior	7/1/2030	12/31/2032	5	655	10	Parking	-	100	0.00464	6%	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (	6/1/2032	10/31/2033	5	370	10	Parking	-	100	0.00464	6%	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Asse	11/1/2033	11/30/2033	5	22	10	Parking	-	100	0.00464	6%	-	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	Parking	-	100	0.00464	6%	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	Parking	-	100	0.00464	6%	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	Parking	-	100	0.00464	6%	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CID	8/1/2032	5/31/2033	5	217	10	Parking	-	100	0.00464	6%	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assemt	5/1/2033	10/31/2033	5	131	10	Parking	-	100	0.00464	6%	-	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	Parking	-	100	0.00464	6%	-	-	-
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Parking	-	100	0.00464	6%	-	-	-
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Parking	-	100	0.00464	6%	-	-	-
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Parking	-	100	0.00464	6%	-	-	-
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	Parking	-	100	0.00464	6%	-	-	-
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	Parking	-	100	0.00464	6%	-	-	-
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Parking	-	100	0.00464	6%	-	-	-
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Parking	-	100	0.00464	6%	-	-	-
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Parking	-	100	0.00464	6%	-	-	-
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	Parking	-	100	0.00464	6%	-	-	-
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	Parking	-	100	0.00464	6%	-	-	-
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Parking	-	100	0.00464	6%	-	-	-
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Parking	-	100	0.00464	6%	-	-	-
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	Parking	-	100	0.00464	6%	-	-	-
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	Parking	-	100	0.00464	6%	-	-	-
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	Parking	-	100	0.00464	6%	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Parking	-	100	0.00464	6%	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Parking	-	100	0.00464	6%	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	Parking	-	100	0.00464	6%	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	Parking	-	100	0.00464	6%	-	-	-
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	Parking	-	100	0.00464	6%	-	-	-
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Parking	-	100	0.00464	6%	-	-	-
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Parking	-	100	0.00464	6%	-	-	-
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Parking	-	100	0.00464	6%	-	-	-
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	Parking	-	100	0.00464	6%	-	-	-
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	Parking	-	100	0.00464	6%	-	-	-
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	Parking	-	100	0.00464	6%	-	-	-
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	Parking	-	100	0.00464	6%	-	-	-
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	Parking	-	100	0.00464	6%	-	-	-
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	Parking	-	100	0.00464	6%	-	-	-
UCLA Gateway MRT Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	Parking	-	100	0.00464	6%	-	-	-
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	Parking	-	100	0.00464	6%	-	-	-
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	Parking	-	100	0.00464	6%	-	-	-
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	Parking	-	100	0.00464	6%	-	-	-
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	Parking	-	100	0.00464	6%	-	-	-
Wilshire Blvd-Metro D Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	Parking	-	100	0.00464	6%	-	-	-
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Parking	-	100	0.00464	6%	-	-	-
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Parking	-	100	0.00464	6%	-	-	-
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	Parking	-	100	0.00464	6%	-	-	-
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	Parking	-	100	0.00464	6%	-	-	-
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	Parking	-	100	0.00464	6%	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 3

ARCHITECTURAL COATINGS-PARKING (ONSITE)

								Parking Paved Area					
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Hours per Workday**	**Coating Type**	**Parking Area (SF)**	**VOC Content (g/L)**	**Parking EF (lb VOC/SF)**	**% of Parking Area Painted**	**Parking Area to Be Painted (SF)**	**Total ROG Emissions (tons)**	**Daily ROG Emissions (lb/day)**
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	Parking	-	100	0.00464	6%	-	-	-
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	Parking	-	100	0.00464	6%	-	-	-
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	Parking	-	100	0.00464	6%	-	-	-
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	Parking	-	100	0.00464	6%	-	-	-
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	Parking	-	100	0.00464	6%	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Parking	-	100	0.00464	6%	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Parking	-	100	0.00464	6%	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Parking	-	100	0.00464	6%	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	Parking	-	100	0.00464	6%	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	Parking	-	100	0.00464	6%	-	-	-
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	Parking	-	100	0.00464	6%	-	-	-
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Parking	-	100	0.00464	6%	-	-	-
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Parking	-	100	0.00464	6%	-	-	-
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Parking	-	100	0.00464	6%	-	-	-
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	Parking	-	100	0.00464	6%	-	-	-
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	Parking	-	100	0.00464	6%	-	-	-
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	Parking	-	100	0.00464	6%	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	Parking	-	100	0.00464	6%	-	-	-
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Parking	-	100	0.00464	6%	-	-	-
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	Parking	-	100	0.00464	6%	-	-	-
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	Parking	-	100	0.00464	6%	-	-	-
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	Parking	-	100	0.00464	6%	-	-	-
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	Parking	-	100	0.00464	6%	-	-	-
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	Parking	-	100	0.00464	6%	-	-	-
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	Parking	-	100	0.00464	6%	-	-	-
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	Parking	-	100	0.00464	6%	-	-	-
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	Parking	-	100	0.00464	6%	-	-	-
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	Parking	-	100	0.00464	6%	-	-	-
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	Parking	395000	100	0.00464	6%	23700	0.0549	2.5551
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Parking	1000	100	0.00464	6%	60	0.0001	0.0025
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Parking	1000	100	0.00464	6%	60	0.0001	0.0018
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	Parking	1000	100	0.00464	6%	60	0.0001	0.0025
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	Parking	1000	100	0.00464	6%	60	0.0001	0.0018
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	Parking	-	100	0.00464	6%	-	-	-
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	Parking	-	100	0.00464	6%	-	-	-
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	Parking	-	100	0.00464	6%	-	-	-
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	Parking	3888000	100	0.00464	6%	233280	0.5407	4.5060
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	Parking	-	100	0.00464	6%	-	-	-
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	Parking	-	100	0.00464	6%	-	-	-
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	Parking	-	100	0.00464	6%	-	-	-
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	Parking	3000	100	0.00464	6%	180	0.0004	0.0194
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	Parking	43560	100	0.00464	6%	2614	0.0061	0.1836
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	Parking	-	100	0.00464	6%	-	-	-

Notes:

1. VOC content values based on CalEEMod default values.
2. Emissions calculated in accordance with CalEEMod methodology.

Sepulveda Transit Corridor Project - ALTERNATIVE 3

PAVING OFF-GASSING (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	Paved Area (SF)	Paved Area (Acres)	Paved Area (Acres) / day	Off-Gassing EF (lb/acre)[1]	Daily ROG Emissions (lb/day)[2]	Total ROG Emissions (tons)[2]
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	-	-	-	2.62	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	-	-	-	2.62	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	5/1/2032	7/31/2035	5	847	10	-	-	-	2.62	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	8/1/2035	3/31/2036	5	174	10	-	-	-	2.62	-	-
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	4/1/2036	5/31/2036	5	44	10	-	-	-	2.62	-	-
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	1/1/2029	12/31/2032	5	1045	20	-	-	-	2.62	-	-
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	20	-	-	-	2.62	-	-
MRT Segment 6-Getty Center to Federal Building-Launch Box	6/1/2032	12/31/2032	5	154	20	-	-	-	2.62	-	-
MRT Segment 6-Getty Center to Federal Building-Tunneling	1/1/2033	7/31/2035	5	672	20	-	-	-	2.62	-	-
MRT Segment 6-Getty Center to Federal Building-Finishing Work	8/1/2035	2/28/2037	5	413	20	-	-	-	2.62	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	-	-	-	2.62	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	-	-	-	2.62	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (C	6/1/2032	10/31/2033	5	370	10	-	-	-	2.62	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Asse	11/1/2033	11/30/2033	5	22	10	-	-	-	2.62	-	-
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	12/1/2033	1/31/2034	5	44	10	-	-	-	2.62	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	1/1/2029	12/31/2032	5	1045	10	-	-	-	2.62	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	7/1/2030	12/31/2032	5	655	10	-	-	-	2.62	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH	8/1/2032	5/31/2033	5	217	10	-	-	-	2.62	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembl	5/1/2033	10/31/2033	5	131	10	-	-	-	2.62	-	-
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	11/1/2033	12/31/2033	5	44	10	-	-	-	2.62	-	-
Van Nuys MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	-	-	-	2.62	-	-
Van Nuys MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	-	-	-	2.62	-	-
Van Nuys MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	-	-	-	2.62	-	-
Van Nuys MRT Station-Precast Superstructure Assembly	3/1/2033	3/31/2033	5	23	10	-	-	-	2.62	-	-
Van Nuys MRT Station-Finishing Work	4/1/2033	2/28/2035	5	499	10	-	-	-	2.62	-	-
Sherman Way MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	-	-	-	2.62	-	-
Sherman Way MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	-	-	-	2.62	-	-
Sherman Way MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	-	-	-	2.62	-	-
Sherman Way MRT Station-Precast Superstructure Assembly	1/1/2033	3/31/2033	5	64	10	-	-	-	2.62	-	-
Sherman Way MRT Station-Finishing Work	4/1/2033	10/31/2034	5	413	10	-	-	-	2.62	-	-
Metro G Line MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	-	-	-	2.62	-	-
Metro G Line MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	-	-	-	2.62	-	-
Metro G Line MRT Station-Substructure Foundations (CIDH)	3/1/2032	1/31/2034	5	502	10	-	-	-	2.62	-	-
Metro G Line MRT Station-Precast Superstructure Assembly	1/1/2034	4/30/2034	5	85	10	-	-	-	2.62	-	-
Metro G Line MRT Station-Finishing Work	4/1/2034	8/31/2035	5	370	10	-	-	-	2.62	-	-
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	-	-	-	2.62	-	-
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	-	-	-	2.62	-	-
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	4/30/2033	5	282	10	-	-	-	2.62	-	-
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	5/1/2033	9/30/2033	5	110	10	-	-	-	2.62	-	-
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	10/1/2033	12/31/2034	5	325	10	-	-	-	2.62	-	-
Getty Center MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	-	-	-	2.62	-	-
Getty Center MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	-	-	-	2.62	-	-
Getty Center MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	-	-	-	2.62	-	-
Getty Center MRT Station-Precast Superstructure Assembly	1/1/2033	5/31/2033	5	107	10	-	-	-	2.62	-	-
Getty Center MRT Station-Finishing Work	6/1/2033	5/31/2034	5	261	10	-	-	-	2.62	-	-
UCLA Gateway MRT Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	-	-	-	2.62	-	-
UCLA Gateway MRT Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	-	-	-	2.62	-	-
UCLA Gateway MRT Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	-	-	-	2.62	-	-
UCLA Gateway MRT Station-Station Construction	2/1/2034	2/28/2036	5	542	10	-	-	-	2.62	-	-
UCLA Gateway MRT Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	-	-	-	2.62	-	-
Wilshire Blvd-Metro D Station-Utility Relocations	1/1/2029	1/31/2032	5	805	10	-	-	-	2.62	-	-
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	1/1/2030	1/31/2032	5	544	10	-	-	-	2.62	-	-
Wilshire Blvd-Metro D Station-Station SOE-Excavation	2/1/2032	1/31/2034	5	522	10	-	-	-	2.62	-	-
Wilshire Blvd-Metro D Station-Station Construction	2/1/2034	2/28/2036	5	542	10	-	-	-	2.62	-	-
Wilshire Blvd-Metro D Station-Finishing Work	2/1/2036	9/30/2037	5	434	10	-	-	-	2.62	-	-
Santa Monica Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	-	-	-	2.62	-	-
Santa Monica Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	-	-	-	2.62	-	-
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	12/31/2032	5	197	10	-	-	-	2.62	-	-
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	1/1/2033	6/30/2033	5	129	10	-	-	-	2.62	-	-
Santa Monica Blvd MRT Station-Finishing Work	7/1/2033	9/30/2034	5	326	10	-	-	-	2.62	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 3

PAVING OFF-GASSING (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	Paved Area (SF)	Paved Area (Acres)	Paved Area (Acres) / day	Off-Gassing EF (lb/acre)[1]	Daily ROG Emissions (lb/day)[2]	Total ROG Emissions (tons)[2]
Exposition Blvd MRT Station-Utility Relocations	1/1/2029	6/30/2031	5	651	10	-	-	-	2.62	-	-
Exposition Blvd MRT Station-Demolition/Site Preparation	7/1/2031	3/31/2032	5	197	10	-	-	-	2.62	-	-
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	4/1/2032	2/28/2033	5	238	10	-	-	-	2.62	-	-
Exposition Blvd MRT Station-Precast Superstructure Assembly	3/1/2033	5/31/2033	5	66	10	-	-	-	2.62	-	-
Exposition Blvd MRT Station-Finishing Work	6/1/2033	3/31/2035	5	478	10	-	-	-	2.62	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	5/1/2032	12/31/2032	5	175	10	-	-	-	2.62	-	-
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	-	-	-	2.62	-	-
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	-	-	-	2.62	-	-
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	6/1/2033	7/31/2033	5	43	10	-	-	-	2.62	-	-
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	8/1/2033	8/31/2033	5	23	10	-	-	-	2.62	-	-
TPSS 4-405-Near Getty Center on East side of 405-Paving	9/1/2033	9/30/2033	5	22	10	-	-	-	2.62	-	-
TPSS 6-Skirball-Utility Relocation	5/1/2032	12/31/2032	5	175	10	-	-	-	2.62	-	-
TPSS 6-Skirball-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	-	-	-	2.62	-	-
TPSS 6-Skirball-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	-	-	-	2.62	-	-
TPSS 6-Skirball-Concrete Work	6/1/2033	7/31/2033	5	43	10	-	-	-	2.62	-	-
TPSS 6-Skirball-Utility Work	8/1/2033	8/31/2033	5	23	10	-	-	-	2.62	-	-
TPSS 6-Skirball-Paving	9/1/2033	9/30/2033	5	22	10	-	-	-	2.62	-	-
TPSS 11-Raymer-Van Nuys-Utility Relocation	5/1/2032	12/31/2032	5	175	10	-	-	-	2.62	-	-
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	-	-	-	2.62	-	-
TPSS 11-Raymer-Van Nuys-Grading/Excavation	4/1/2033	5/31/2033	5	43	10	-	-	-	2.62	-	-
TPSS 11-Raymer-Van Nuys-Concrete Work	6/1/2033	7/31/2033	5	43	10	-	-	-	2.62	-	-
TPSS 11-Raymer-Van Nuys-Utility Work	8/1/2033	8/31/2033	5	23	10	-	-	-	2.62	-	-
TPSS 11-Raymer-Van Nuys-Paving	9/1/2033	9/30/2033	5	22	10	-	-	-	2.62	-	-
OMSF-Utility Relocation	7/1/2031	12/31/2032	5	394	10	-	-	-	2.62	-	-
OMSF-Demolition/Site Preparation	1/1/2033	3/31/2033	5	64	10	-	-	-	2.62	-	-
OMSF-Grading/Excavation	4/1/2033	6/30/2033	5	65	10	-	-	-	2.62	-	-
OMSF-Concrete Work	7/1/2033	8/31/2033	5	44	10	-	-	-	2.62	-	-
OMSF-Utility Work	9/1/2033	2/28/2034	5	129	10	-	-	-	2.62	-	-
OMSF-Paving	3/1/2034	4/30/2034	5	43	10	395000	9.07	0.21	2.62	0.5525	0.0119
Haynes St Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	1000	0.02	0.00	2.62	0.0005	0.0000
Missouri Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	1000	0.02	0.00	2.62	0.0004	0.0000
La Grange Ave Utility Relocation-Construction	7/1/2029	11/30/2029	5	110	10	1000	0.02	0.00	2.62	0.0005	0.0000
Mississippi Ave Utility Relocation-Construction	7/1/2029	1/31/2030	5	154	10	1000	0.02	0.00	2.62	0.0004	0.0000
I-405 Improvements-Utility Relocation	1/1/2029	6/30/2030	5	390	10	-	-	-	2.62	-	-
I-405 Improvements-Demolition/Site Preparation	7/1/2030	4/30/2031	5	218	10	-	-	-	2.62	-	-
I-405 Improvements-Grading/Excavation	5/1/2031	1/31/2032	5	197	10	-	-	-	2.62	-	-
I-405 Improvements-Concrete Work	2/1/2032	12/31/2032	5	240	10	3888000	89.26	0.37	2.62	0.9744	0.1169
Precast Yard-Demolition/Site Preparation	1/1/2029	6/30/2029	5	130	10	-	-	-	2.62	-	-
Precast Yard-Grading/Excavation	7/1/2029	11/30/2029	5	110	10	-	-	-	2.62	-	-
Precast Yard-Concrete Work	12/1/2029	4/30/2030	5	107	10	-	-	-	2.62	-	-
Precast Yard-Utility Work	5/1/2030	6/30/2030	5	43	10	3000	0.07	0.00	2.62	0.0042	0.0001
Precast Yard-Paving	5/1/2030	7/31/2030	5	66	10	43560	1.00	0.02	2.62	0.0397	0.0013
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	-	-	-	2.62	-	-

Notes:

1. Emission factor based on CalEEMod default value.
2. Emissions calculated in accordance with CalEEMod methodology.

Sepulveda Transit Corridor Project - ALTERNATIVE 3

CONCRETE BATCH PLANT FUGITIVE DUST (ONSITE)

								Batch Plant EF (lb/CY)						Daily Emissions (lb/day)						Total Emissions (tons)					
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Hours per Workday**	**Concrete Required (CY)**	**Concrete Throughput (CY/day)**	**PM_{10} Fugitive**	**PM_{10} Exhaust**	**PM_{10} Total**	**$PM_{2.5}$ Fugitive**	**$PM_{2.5}$ Exhaust**	**$PM_{2.5}$ Total**	**PM_{10} Fugitive**	**PM_{10} Exhaust**	**PM_{10} Total**	**$PM_{2.5}$ Fugitive**	**$PM_{2.5}$ Exhaust**	**$PM_{2.5}$ Total**	**PM_{10} Fugitive**	**PM_{10} Exhaust**	**PM_{10} Total**	**$PM_{2.5}$ Fugitive**	**$PM_{2.5}$ Exhaust**	**$PM_{2.5}$ Total**
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	82,459	105	0.0172	-	0.0172	0.0028	-	0.0028	1.81	-	1.81	0.29	-	0.29	0.7071	-	0.7071	0.1141	-	0.1141

	Emission Factors-Controlled (lb pollutant/CY Concrete)[5]	
Batch Plant Process	**PM_{10}**	**$PM_{2.5}$**
Aggregate Delivery to Ground Storage[1]	0.0031	5.00E-04
Sand Delivery to Ground Storage[1]	0.0007	1.13E-04
Aggregate Transfer to Conveyor[1]	0.0031	5.00E-04
Sand Transfer to Conveyor[1]	0.0007	1.13E-04
Aggregate Transfer to Elevated Storage[1]	0.0031	5.00E-04
Sand Transfer to Elevated Storage[1]	0.0007	1.13E-04
Cement Delivery to Silo[1]	0.0001	1.61E-05
Cement Supplement Delivery to Silo[1]	0.0003	4.84E-05
Weigh Hopper Loading[1]	0.0038	6.13E-04
Central Mixing[2]	0.0016	2.50E-04
Total EF	**0.0172**	**0.0028**

Uncontrolled Truck Mixing EFs[4]

PM_{10}	**$PM_{2.5}$**	**$PM_{2.5}/PM_{10}$**
0.310	0.050	16%

PM2.5 EF is 16% of PM10 EF

	lb PM10 /ton of cement and cement supplement[5]	**Conversion Factor**	**lb PM10/CY Concrete**
Central Mixer EF[3]	0.0055	0.282	0.0016

Notes:

1. USEPA 2006, AP-42-11.12 Concrete Batching, Table 11.12-6
2. USEPA 2006, AP-42-11.12 Concrete Batching, Table 11.12-2
3. USEPA 2006, AP-42-11.12-Page 11.12-9
4. USEPA 2006, AP-42-11.12 Concrete Batching, Table 11.12-3-Based on Uncontrolled EFs
5. Assuming Mixer Loading will have dust controls, thus, the EF is based on a controlled EF for mixer loading (central mix).

Sepulveda Transit Corridor Project - ALTERNATIVE 3

CONCRETE BATCH PLANT WIND BLOWN DUST FROM STORAGE PILES (ONSITE)

										Storage Pile EF (lb/acre/day)						Daily Emissions (lb/day)						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	# of Storage Piles[3]	Storage Pile Area (acres)	Storage Pile Height (ft)	Total Storage Pile Area (acres)	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total
Precast Yard-Guideway Fabrication	8/1/2030	7/31/2033	5	782	10	4	0.50	32	2	0.77	-	0.77	0.12	-	0.12	1.53	-	1.53	0.23	-	0.23	0.60	-	0.60	0.09	-	0.09

Wind Blown Emission Factors[1]	PM_{10}	$PM_{2.5}$
EF (lb/day/acre)	***0.77***	***0.12***
s (silt content of material (weight %))	2.6	2.6
f (% of time the unobstructed wind speed is greater than 12 mph (5.36 m/s) at the mean pile height)[2]	7.8	7.8

Emission Factor Equations[1]

$$E_{PM10} = 0.85\ (s/1.5)\ (f/15)$$
$$E_{PM2.5} = 0.13\ (s/1.5)\ (f/15)$$

**Assuming mean pile height is equivalent to anemometer height of meteorological station.*

1. Countess Environmental, WRAP Fugitive Dust Handbook-Section 9.3

2. f for the project is based on the wind speed class distribution for the Van Nuys Meteorological Station. At this station, 7.8% of wind speeds were greater than 5.70 m/s (12.7 mph) throughout the meteorological period (2012-2016). Although f is based on wind speeds of 12 mph, the wind dataset only had categories for 5.7 m/s and greater. The meteorological site's anemometer height is approximately 10 meters (32 feet), therefore, an 'f' of 7.8% is valid for a storage pile height of up to 32 feet.

3. The number of storage piles assumes 2 piles for sand and 2 piles for coarse aggregate.

Sepulveda Transit Corridor Project - ALTERNATIVE 3

Tunneling Electricity Consumption

	Electricity Consumption (Megawatt-hours)[1]				
Tunnel Segment	**Alternative 1**	**Alternative 3**	**Total Electricity Consumption (MWh)**	**LADWP CO_2e Intensity Factor (lb/MWh)[2]**	**Total GHG Emissions ($MTCO_2e$)**
TBM Path #1 (Getty Station through Bel Air to UCLA)	—	536,668	536,668	567	138,024.19

Notes:

1. Project-specific data.
2. CO_2e intensity factor based on LADWP's 2022 Power Mix Content Label.

lb = pound

MWh = Megawatt-hours

$MTCO_2e$ = metric tons of carbon dioxide equivalent

Sepulveda Transit Corridor Project - ALTERNATIVE 3

Construction Electricity Consumption-Portable Offices

Electricity Consumption for 1 Portable Office[1,2]

			Annual		Monthly	
Land Use Type	Land Use Subtype in CalEEMod	Portable Office Area (SF)	Annual Electricity Consumption per Portable Office (kWh/year)	Annual GHG Emissions per Portable Office ($MTCO_2e$/year)	Monthly Electricity Consumption per Portable Office (kWh/month)	Monthly GHG Emissions per Portable Office ($MTCO_2e$/month)
Commercial	General Office Building	720	11,292.16	2.90	941.01	0.24

Construction GHG Emissions per Project Alternative[3]

Alternative	Number of Portable Offices	Monthly GHG Emissions per Portable Office ($MTCO_2e$/month)	Total Construction Duration (months)	Total GHG Emissions ($MTCO_2e$)
Alternative 3	3	0.24	106.5	77.3

Construction Electricity Consumption per Project Alternative[3]

Alternative	Number of Portable Offices	Monthly Electricity Consumption per Portable Office (kWh/month)	Total Construction Duration (months)	Total Electricity Consumption (kWh)	Total Electricity Consumption (MWh)
Alternative 3	3	941.01	106.5	300559.59	300.56

Notes:

1. CalEEMod was used to estimate electricity consumption from portable offices.
2. Monthly values estimated by dividing annual values by 12 months.
3. It was assumed each Project Alternative would have 3 portable offices used throughout the construction duration.

SF = square feet

kWh = kilowatt-hour

MWh = Megawatt-hour

$MTCO_2e$ = metric tons of carbon dioxide equivalent

Construction Localized Emissions Analysis

Alternative 3 Construction-Valley (North) Components

Maximum Daily Localized Emissions

		Daily Emissions (lb/day)[1]			
Component ID	**Component Description**	**NOX**	**CO**	**PM10**	**PM2.5**
MRT Segment 1-Van Nuys Metrolink to Getty Center_5_10	MRT Aerial Guideway Alignment Construction-5 Days per week/10 Hours per day	43.1	190.6	2.9	1.3
Van Nuys MRT Station_5_10	Van Nuys MRT Station Construction-5 Days per week/10 Hours per day	5.0	23.4	0.2	0.1
Sherman Way MRT Station_5_10	Sherman Way MRT Station Construction-5 Days per week/10 Hours per day	5.0	23.4	0.2	0.1
Metro G Line MRT Station_5_10	Metro G Line MRT Station Construction-5 Days per week/10 Hours per day	5.0	23.4	0.5	0.2
Sherman Oaks-Vta Blvd MRT Station_5_10	Sherman Oaks-Vta Blvd MRT Station Construction-5 Days per week/10 Hours per day	5.0	23.4	0.5	0.2
TPSS 6-Skirball_5_10	TPSS 6-Skirball Construction-5 Days per week/10 Hours per day	4.1	13.3	2.4	1.0
TPSS 11-Raymer-Van Nuys_5_10	TPSS 11-Raymer-Van Nuys Construction-5 Days per week/10 Hours per day	4.1	13.3	2.7	1.1
OMSF_B_5_10	OMSF-Base Design Construction-5 Days per week/10 Hours per day	4.1	13.3	3.7	1.3
	Component Name	**NOX**	**CO**	**PM10**	**PM2.5**
	MRT Segment 1-Van Nuys Metrolink to Getty Center	43.1	190.6	2.9	1.3
	Van Nuys MRT Station	5.0	23.4	0.2	0.1
	Sherman Way MRT Station	5.0	23.4	0.2	0.1
	Metro G Line MRT Station	5.0	23.4	0.5	0.2
	Sherman Oaks-Vta Blvd MRT Station	5.0	23.4	0.5	0.2
	TPSS 6-Skirball	4.1	13.3	2.4	1.0
	TPSS 11-Raymer-Van Nuys	4.1	13.3	2.7	1.1
	MSF	4.1	13.3	3.7	1.3
	Components In Proximity to Each Other				
	MRT Segment 1 + Van Nuys Station + TPSS 11 + MSF	56.2	240.6	9.6	3.8
	Peak Daily Localized Emissions[2]	**56.2**	**240.6**	**9.6**	**3.8**
	SCAQMD Localized Significance Threshold[3]	114	786	7	4
	Exceeds Threshold?	No	No	Yes	No

Construction Localized Emissions Analysis

Alternative 3 Construction-Westside (South) Components

Maximum Daily Localized Emissions

Component ID	Component Description	Daily Emissions (lb/day)[1] NOX	CO	PM10	PM2.5
MRT Segment 6-Getty Center to Federal Building_5_20	MRT Segment 6 Construction-5 Days per week/20 Hours per day	30.4	116.3	6.6	0.9
MRT Segment 7-Federal Building to South of 405_5_10	MRT Segment 7 Construction-5 Days per week/10 Hours per day	14.5	57.6	0.5	0.2
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line	MRT Segment 4 Construction-5 Days per week/10 Hours per day	18.4	73.6	1.7	0.6
Getty Center MRT Station_5_10	Getty Center MRT Station Construction-5 Days per week/10 Hours per day	5.0	23.4	0.3	0.2
UCLA Gateway MRT Station_5_10	UCLA Stn Construction-5 Days per week/10 Hours per day	5.7	24.0	2.3	0.4
Wilshire Blvd-Metro D Station_5_10	Wilshire Blvd-Metro D Stn Construction-5 Days per week/10 Hours per day	6.2	24.4	3.7	0.5
Santa Monica Blvd MRT Station_5_10	Santa Monica Stn Construction-5 Days per week/10 Hours per day	5.0	23.4	0.3	0.2
Exposition Blvd MRT Station_5_10	Exposition Stn Construction-5 Days per week/10 Hours per day	5.0	23.4	0.3	0.2
TPSS 4-405-Near Getty Center on East side of 405_5_10	TPSS 4 Construction-5 Days per week/10 Hours per day	4.1	13.3	2.4	1.0
	Component Name	**NOX**	**CO**	**PM10**	**PM2.5**
	MRT Segment 6-Getty Center to Federal Building	30.4	116.3	6.6	0.9
	MRT Segment 7-Federal Building to South of 405-Wilshire Interchange	14.5	57.6	0.5	0.2
	MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line	18.4	73.6	1.7	0.6
	Getty Center MRT Station	5.0	23.4	0.3	0.2
	UCLA Gateway MRT Station	5.7	24.0	2.3	0.4
	Wilshire Blvd-Metro D Station	6.2	24.4	3.7	0.5
	Santa Monica Blvd MRT Station	5.0	23.4	0.3	0.2
	Exposition Blvd MRT Station	5.0	23.4	0.3	0.2
	TPSS 4-405-Near Getty Center on East side of 405	4.1	13.3	2.4	1.0
	Components In Proximity to Each Other				
	MRT Segment 7 + Wilshire Blvd-Metro D MRT Station	20.7	82.0	4.2	0.8
	Peak Daily Localized Emissions[2]	**30.4**	**116.3**	**6.6**	**1.0**
	SCAQMD Localized Significance Threshold[4]	147	827	6	4
	Exceeds Threshold?	No	No	Yes	No

Notes:

1. Daily emissions for each construction component represent the contribution to the maximum daily localized emissions in the Valley or Westside.
2. Peak daily emissions are based on components in proximity to each other that may affect similar nearby receptors.
3. LST values are based on a 2-acre site with a 25-meter receptor distance in SRA 7 East San Fernando Valley.
4. LST values are based on a 2-acre site with a 25-meter receptor distance in SRA 2 Northwest Coastal LA County.

Appendix A-3.2: Alternative 3 Operational Emissions

Operations Regional and Localized Daily Criteria Pollutant Emission Summaries

Daily Regional (Onsite + Offsite) Operational AQ Emissions

Alternative 3 (2045) Compared to No Project Alternative (2045)

	Daily Emissions (lb/day)									
Source Category	**ROG**	**NO_X**	**CO**	**SO_X**	**PM_{10} Fugitive**	**PM_{10} Exhaust**	**PM_{10} Total**	**$PM_{2.5}$ Fugitive**	**$PM_{2.5}$ Exhaust**	**$PM_{2.5}$ Total**
MSF Area Sources[1]	2.68	0.03	3.52	0.00	0.00	0.01	0.01	0.00	0.00	0.00
Stations Area Sources[2]	6.60	0.33	39.01	0.00	0.00	0.07	0.07	0.00	0.05	0.05
Mobile-VMT Analysis	8,980.03	88,856.70	622,769.42	3,484.14	406,532.69	2,045.19	408,577.88	103,468.65	1,934.44	105,403.09
Mobile-Employee Travel	0.96	2.19	13.62	0.06	7.15	0.04	7.19	1.82	0.04	1.85
Emergency Generators[3]	11.55	51.65	29.45	0.06	0.00	1.70	1.70	0.00	1.70	1.70
Alternative 3 Total Emissions	**9,001.82**	**88,910.90**	**622,855.02**	**3,484.26**	**406,539.84**	**2,047.00**	**408,586.84**	**103,470.47**	**1,936.23**	**105,406.70**
No Project Alternative Emissions[5]	8,987.16	88,927.26	623,263.93	3,486.90	406,855.50	2,046.81	408,902.31	103,550.81	1,935.97	105,486.79
Alternative 3 Net Change in Emissions	**14.66**	**-16.36**	**-408.91**	**-2.65**	**-315.66**	**0.19**	**-315.47**	**-80.34**	**0.26**	**-80.08**
SCAQMD Regional Significance Thresholds	55	55	550	150	N/A	N/A	150	N/A	N/A	55
Exceeds Threshold?	**No**	**No**	**No**	**No**			**No**			**No**

Notes:

MSF = Maintenance and Storage Facility

N/A = Not Applicable, no threshold for this pollutant.

1. Total emissions from MSF.
2. Total emissions from all stations.
3. Emergency generators were required for underground stations and at the MSF. Alternative 3 has two underground stations and would require one generator per underground station.
4. In accordance with City of LA Municipal Code, all new buildings would be required to have all electric appliances for water and space heating, therefore no natural gas would be consumed during operations.
5. No Project Alternative emissions are related to mobile sources.

Daily Regional (Onsite + Offsite) Operational AQ Emissions

Alternative 3 (2045) Compared to Baseline (2021)

	Daily Emissions (lb/day)									
Source Category	**ROG**	**NO_X**	**CO**	**SO_X**	**PM_{10} Fugitive**	**PM_{10} Exhaust**	**PM_{10} Total**	**$PM_{2.5}$ Fugitive**	**$PM_{2.5}$ Exhaust**	**$PM_{2.5}$ Total**
MSF Area Sources[1]	2.68	0.03	3.52	0.00	0.00	0.01	0.01	0.00	0.00	0.00
Stations Area Sources[2]	6.60	0.33	39.01	0.00	0.00	0.07	0.07	0.00	0.05	0.05
Mobile-VMT Analysis	8,980.03	88,856.70	622,769.42	3,484.14	406,532.69	2,045.19	408,577.88	103,468.65	1,934.44	105,403.09
Mobile-Employee Travel	0.96	2.19	13.62	0.06	7.15	0.04	7.19	1.82	0.04	1.85
Emergency Generators[3]	11.55	51.65	29.45	0.06	0.00	1.70	1.70	0.00	1.70	1.70
Alternative 3 Total Emissions	**9,001.82**	**88,910.90**	**622,855.02**	**3,484.26**	**406,539.84**	**2,047.00**	**408,586.84**	**103,470.47**	**1,936.23**	**105,406.70**
Baseline Emissions[6]	27,490.34	222,015.82	1,219,500.95	3,920.27	325,836.60	3,379.36	329,215.96	82,877.61	3,173.58	86,051.19
Alternative 3 Net Change in Emissions	**-18,488.52**	**-133,104.92**	**-596,645.93**	**-436.01**	**80,703.24**	**-1,332.36**	**79,370.88**	**20,592.86**	**-1,237.35**	**19,355.51**
SCAQMD Regional Significance Thresholds	55	55	550	150	N/A	N/A	150	N/A	N/A	55
Exceeds Threshold?	**No**	**No**	**No**	**No**			**Yes**			**Yes**

Notes:

MSF = Maintenance and Storage Facility

N/A = Not Applicable, no threshold for this pollutant.

1. Total emissions from MSF.
2. Total emissions from all stations.
3. Emergency generators were required for underground stations and at the MSF. Alternative 3 has two underground stations and would require one generator per underground station.
4. In accordance with City of LA Municipal Code, all new buildings would be required to have all electric appliances for water and space heating, therefore no natural gas would be consumed during operations.
5. It should be noted that the exceedances for PM10 and PM2.5 are a function of increased fugitive dust emissions related directly to growth in VMT from Baseline 2019 to Future 2045. Dust emission factors for tire wear, brake wear, and paved roads stay relatively constant over the 2019-2045 timeframe compared to engine process emissions factors which drastically decrease over this same time period due to compliance with vehicle emission standards.
6. Baseline emissions are related to mobile sources.

Daily Localized (Onsite) Operational AQ Emissions

Alternative 3 (2045)

	Daily Emissions (lb/day)			
Source Category	**NO_X**	**CO**	**PM_{10} Total**	**$PM_{2.5}$ Total**
MSF Area Sources[1]	0.03	3.52	0.01	0.00
Stations Area Sources[2]	0.33	39.01	0.07	0.05
Emergency Generators[3]	51.65	29.45	1.70	1.70
Alternative 3 Total Emissions	**52.01**	**71.98**	**1.77**	**1.76**
SCAQMD Localized Significance Thresholds[4]	172	1,434	3	2
Exceeds Threshold?	**No**	**No**	**No**	**No**

Notes:

MSF = Maintenance and Storage Facility

N/A = Not Applicable, no threshold for this pollutant.

1. Total emissions from main MSF and e-Bus MSF.

2. Total emissions from all stations.

3. Emergency generators were required for underground stations and at the MSF. Alternative 3 has two underground stations and would require one generator per underground station.

4. The components of the alternative (MSF and stations) are located at different locations along the alternative alignment, therefore it was conservatively assumed that the total localized emissions from all components would occur within a 5-acre site, although in reality, the total acreage of all these components is far greater than 5 acres. The LSTs were developed for sites less than 5 acres, however, the LSTs were used to conduct a screening-level analysis for projects greater than 5 acres to determine if further refined analysis of local air quality impacts is required. Therefore, the LSTs for a 5-acre site were used to evaluate the alternative's local impacts. The localized analysis uses LST values based on a 5-acre site with a receptor distance of 25 meters. Also, because the components are located in different Source Receptor Areas (#2: North Coastal LA County & #7 East San Fernando Valley), the lowest LST values (i.e., strictest thresholds) between these SRAs were selected for each pollutant.

5. In accordance with City of LA Municipal Code, all new buildings would be required to have all electric appliances for water and space heating, therefore no natural gas would be consumed during operations.

6. In accordance with SCAQMD methodology, localized emissions do not include offsite sources such as mobile sources.

Localized Significance Threshold (LST) Values

		Operations LST Values for 5-Acre Site with 25 meter Receptor Distance			
Source Receptor Area (SRA) #	**SRA Name**	**NO_X**	**CO**	**PM_{10}**	**$PM_{2.5}$**
2	Northwest Coastal LA County	221	1,531	3	2
7	East San Fernando Valley	172	1,434	4	2
	Minimum LST Value	**172**	**1,434**	**3**	**2**

The components of the alternative (MSF and stations) are located at different locations along the alternative alignment, therefore it was conservatively assumed that the total localized emissions from all components would occur within a 5-acre site, although in reality, the total acreage of all these components is far greater than 5 acres. The LSTs were developed for sites less than 5 acres, however, the LSTs were used to conduct a screening-level analysis for projects greater than 5 acres to determine if further refined analysis of local air quality impacts is required. Therefore, the LSTs for a 5-acre site were used to evaluate the alternative's local impacts. The localized analysis uses LST values based on a 5-acre site with a receptor distance of 25 meters. Also, because the components are located in different Source Receptor Areas (#2: North Coastal LA County & #7 East San Fernando Valley), the lowest LST values (i.e., strictest thresholds) between these SRAs were selected for each pollutant.

Operations Annual Greenhouse Gas Emission Summaries

Annual GHG Emissions

Alternative 3 (2045) Compared to No Project Alternative (2045)

	Annual GHG Emissions ($MTCO_2e/yr$) by Component						
Source Category	**Track Alignment Electricity[1]**	**MSF[2]**	**Stations[3]**	**VMT Analysis**	**Employee Travel**	**Amortized Construction[4]**	**Total**
Area		1.65	18.26				19.91
Electricity	3,342.36	83.73	134.66				3,560.74
Mobile				57,143,355.52	1,026.87		57,144,382.38
Water		23.67	0.13				23.80
Waste		23.52					23.52
Refrigerants		0.03					0.03
Emergency Generators		44.82	89.63				134.45
Amortized Construction						7,291.38	7,291.38
Alternative 3 Total Emissions							57,155,436.2
No Project Alternative Emissions				**57,188,729.73**			**57,188,729.73**
Alternative 3 Net Change in Emissions							**-33,293.52**

Notes:

1. Electricity consumption values based on Energy Consumption During Operations Report (MRT.PH3.3.6.10.k.draft) Accounts for electricity consumption from all components (traction power for track alignment, stations, MSFs, e-buses, etc.).
2. Accounts for emissions related to MSF.
3. Accounts for emissions related to all stations.
4. Total construction emissions were amortized over the design lifetime of Alternative 3, which would be 100 years.
5. In accordance with City of LA Municipal Code, all new buildings would be required to have all electric appliances for water and space heating, therefore no natural gas would be consumed during operations.

6. No Project Alternative emissions are related to mobile sources.

Annual GHG Emissions

Alternative 3 (2045) Compared to Baseline (2021)

	Annual GHG Emissions ($MTCO_2e/yr$) by Component						
Source Category	**Track Alignment Electricity[1]**	**MSF[2]**	**Stations[3]**	**VMT Analysis**	**Employee Travel**	**Amortized Construction[4]**	**Total**
Area		1.65	18.26				19.91
Electricity	3,342.36	83.73	134.66				3,560.74
Mobile				57,143,355.52	1,026.87		57,144,382.38
Water		23.67	0.13				23.80
Waste		23.52					23.52
Refrigerants		0.03					0.03
Emergency Generators		44.82	89.63				134.45
Amortized Construction						7,291.38	7,291.38
Alternative 3 Total Emissions							57,155,436.2
Baseline Emissions				**64,691,321.96**			**64,691,321.96**
Alternative 3 Net Change in Emissions							**-7,535,885.75**

Notes:

1. Electricity consumption values based on Energy Consumption During Operations Report (MRT.PH3.3.6.10.k.draft) Accounts for electricity consumption from all components (traction power for track alignment, stations, MSFs, e-buses, etc.).
2. Accounts for emissions related to MSF.
3. Accounts for emissions related to all stations.
4. Total construction emissions were amortized over the design lifetime of Alternative 3, which would be 100 years.
5. In accordance with City of LA Municipal Code, all new buildings would be required to have all electric appliances for water and space heating, therefore no natural gas would be consumed during operations.

6. Baseline emissions are related to mobile sources.

Mobile Emissions

Mobile Emissions-Alternative 3 (2045) Compared to No Project Alternative (2045)

Scenario	Analysis Year	Daily VMT	Annual VMT[2]	Daily Emissions (lb/day)												
				ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
No Project Alternative-VMT Analysis[1]	2045	568,557,200	197,289,348,400	8,987.2	88,927.3	623,263.9	3,486.9	406,855.5	2,046.8	408,902.3	103,550.8	1,936.0	105,486.8	358,320,962.1	3,957.5	16,514.6
Alternative 3-VMT Analysis[1]	2045	568,106,100	197,132,816,700	8,980.0	88,856.7	622,769.4	3,484.1	406,532.7	2,045.2	408,577.9	103,468.7	1,934.4	105,403.1	358,036,666.1	3,954.3	16,501.5
	Net Change	-451,100	-156,531,700	**-7.1**	**-70.6**	**-494.5**	**-2.8**	**-322.8**	**-1.6**	**-324.4**	**-82.2**	**-1.5**	**-83.7**	**-284,296.1**	**-3.1**	**-13.1**
Alternative 3-VMT from Employee Travel[3]	2045	9,989	3,466,183	1.0	2.2	13.6	0.1	7.1	0.04	7.2	1.8	0.04	1.9	6,421.9	0.1	0.3
			Alternative 3 Net Mobile Emissions	**-6.2**	**-68.4**	**-480.9**	**-2.7**	**-315.7**	**-1.6**	**-317.2**	**-80.3**	**-1.5**	**-81.8**	**-277,874.2**	**-3.0**	**-12.8**

Notes:

VMT = vehicle miles traveled

1. Daily VMT values from Project Traffic Study.

2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.

3. Employee VMT based on number of employees, daily trips, and CalEEMod trip length for Non-Residential Home-Work Trip.

Mobile Emissions-Alternative 3 (2045) Compared to No Project Alternative (2045)

				Annual Emissions (tons/year)											Annual Emissions (metric tons)			
Scenario	**Analysis Year**	**Daily VMT**	**Annual VMT[2]**	**ROG**	**NO_X**	**CO**	**SO_X**	**PM_{10} Fugitive**	**PM_{10} Exhaust**	**PM_{10} Total**	**$PM_{2.5}$ Fugitive**	**$PM_{2.5}$ Exhaust**	**$PM_{2.5}$ Total**	**CO_2**	**CH_4**	**N_2O**	**CO_2e**
No Project Alternative-VMT Analysis[1]	2045	568,557,200	197,289,348,400	1,559.3	15,428.9	108,136.3	605.0	70,589.4	355.1	70,944.6	17,966.1	335.9	18,302.0	56,398,551.2	622.9	2,599.3	57,188,729.7
Alternative 3-VMT Analysis[1]	2045	568,106,100	197,132,816,700	1,558.0	15,416.6	108,050.5	604.5	70,533.4	354.8	70,888.3	17,951.8	335.6	18,287.4	56,353,803.9	622.4	2,597.3	57,143,355.5
	Net Change	-451,100	-156,531,700	**-1.2**	**-12.2**	**-85.8**	**-0.5**	**-56.0**	**-0.3**	**-56.3**	**-14.3**	**-0.3**	**-14.5**	**-44,747.3**	**-0.5**	**-2.1**	**-45,374.2**
Alternative 3-VMT from Employee Travel[3]	2045	9,989	3,466,183	0.17	0.4	2.4	0.01	1.2	0.01	1.2	0.3	0.01	0.3	1,010.8	0.02	0.1	1,026.9
			Alternative 3 Net Mobile Emissions	**-1.1**	**-11.9**	**-83.4**	**-0.5**	**-54.8**	**-0.3**	**-55.0**	**-13.9**	**-0.3**	**-14.2**	**-43,736.5**	**-0.5**	**-2.0**	**-44,347.3**

Notes:

VMT = vehicle miles traveled

1. Daily VMT values from Project Traffic Study.

2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.

3. Employee VMT based on number of employees, daily trips, and CalEEMod trip length for Non-Residential Home-Work Trip.

Mobile Emissions-Alternative 3 (2045) Compared to Baseline (2021)				Daily Emissions (lb/day)[5]													
Scenario	Analysis Year	Daily VMT	Annual VMT[2]	ROG	NO_x	CO	SO_x	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Baseline-VMT Analysis[1]	2021	456,869,300	158,533,647,100	27,490.3	222,015.8	1,219,501.0	3,920.3	325,836.6	3,379.4	329,216.0	82,877.6	3,173.6	86,051.2	405,050,918.1	11,947.9	18,987.9
Alternative 3-VMT Analysis[1]	2045	568,106,100	197,132,816,700	8,980.0	88,856.7	622,769.4	3,484.1	406,532.7	2,045.2	408,577.9	103,468.7	1,934.4	105,403.1	358,036,666.1	3,954.3	16,501.5
	Net Change[3]	111,236,800	38,599,169,600	**-18,510.3**	**-133,159.1**	**-596,731.5**	**-436.1**	**80,696.1**	**-1,334.2**	**79,361.9**	**20,591.0**	**-1,239.1**	**19,351.9**	**-47,014,252.0**	**-7,993.6**	**-2,486.4**
Alternative 3-VMT from Employee Travel[4]	2045	9,989	3,466,183	1.0	2.2	13.6	0.1	7.1	0.0	7.2	1.8	0.0	1.9	6,421.9	0.1	0.3
			Alternative 3 Net Mobile Emissions	**-18,509.4**	**-133,156.9**	**-596,717.9**	**-436.1**	**80,703.2**	**-1,334.1**	**79,369.1**	**20,592.9**	**-1,239.1**	**19,353.8**	**-47,007,830.1**	**-7,993.4**	**-2,486.1**

Notes:

VMT = vehicle miles traveled

1. Daily VMT values from Project Traffic Study.
2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
3. Increase in VMT related to growth from 2021 to 2045.
4. Employee VMT based on number of employees, daily trips, and CalEEMod trip length for Non-Residential Home-Work Trip.
5. Increase in fugitive emissions is directly related to increase in VMT. Dust emission factors for tire wear, brake wear, and paved roads stay relatively constant over the 2021-2045 timeframe compared to engine process emissions factors which drastically decrease over this same time period due to compliance with vehicle emission standards.

Mobile Emissions-Alternative 3 (2045) Compared to Baseline (2021)				Annual Emissions (tons/year)[5]										Annual Emissions (metric tons)			
Scenario	Analysis Year	Daily VMT	Annual VMT[2]	ROG	NO_x	CO	SO_x	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Baseline-VMT Analysis[1]	2021	456,869,300	158,533,647,100	4,769.6	38,519.7	211,583.4	680.2	56,532.7	586.3	57,119.0	14,379.3	550.6	14,929.9	63,753,693.9	1,880.6	2,988.6	64,691,322.0
Alternative 3-VMT Analysis[1]	2045	568,106,100	197,132,816,700	1,558.0	15,416.6	108,050.5	604.5	70,533.4	354.8	70,888.3	17,951.8	335.6	18,287.4	56,353,803.9	622.4	2,597.3	57,143,355.5
	Net Change[3]	111,236,800	38,599,169,600	**-3,211.5**	**-23,103.1**	**-103,532.9**	**-75.7**	**14,000.8**	**-231.5**	**13,769.3**	**3,572.5**	**-215.0**	**3,357.6**	**-7,399,890.0**	**-1,258.2**	**-391.4**	**-7,547,966.4**
Alternative 3-VMT from Employee Travel[4]	2045	9,989	3,466,183	0.2	0.4	2.4	0.0	1.2	0.0	1.2	0.3	0.0	0.3	1,010.8	0.0	0.1	1,026.9
			Alternative 3 Net Mobile Emissions	**-3,211.4**	**-23,102.7**	**-103,530.6**	**-75.7**	**14,002.0**	**-231.5**	**13,770.5**	**3,572.9**	**-215.0**	**3,357.9**	**-7,398,879.2**	**-1,258.1**	**-391.3**	**-7,546,939.6**

Notes:

VMT = vehicle miles traveled

1. Daily VMT values from Project Traffic Study.
2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
3. Increase in VMT related to growth from 2021 to 2045.
4. Employee VMT based on number of employees, daily trips, and CalEEMod trip length for Non-Residential Home-Work Trip.
5. Increase in fugitive emissions is directly related to increase in VMT. Dust emission factors for tire wear, brake wear, and paved roads stay relatively constant over the 2021-2045 timeframe compared to engine process emissions factors which drastically decrease over this same time period due to compliance with vehicle emission standards.

Mobile Emissions-Baseline (2021)

Alternative	Analysis Year	Daily VMT (miles/day)[1]	Days per Year[2]	Annual VMT (miles/year)	Running Emission Factor (grams/mile)[3,4]												
					ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Baseline	2021	456,869,300	347	158,533,647,100	0.0273	0.220	1.211	0.004	0.323	0.003	0.327	0.082	0.003	0.085	402.145	0.012	0.019

Notes:

1. Daily VMT values from Project Traffic Study.

2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
Source: CARB, 2008. Climate Change Draft Scoping Plan Appendices, Volume II: Analysis and Documentation.

3. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.

4. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.

5. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. CO_2 = 1; CH_4 = 25; N_2O = 298

Mobile Emissions-Baseline (2021)

Alternative	Analysis Year	Daily VMT (miles/day)[1]	Days per Year[2]	Annual VMT (miles/year)	Daily Emissions (lb/day)												
					ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Baseline	2021	456,869,300	347	158,533,647,100	27,490.3	222,015.8	1,219,501.0	3,920.3	325,836.6	3,379.4	329,216.0	82,877.6	3,173.6	86,051.2	405,050,918.1	11,947.9	18,987.9

Notes:

1. Daily VMT values from Project Traffic Study.

2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
Source: CARB, 2008. Climate Change Draft Scoping Plan Appendices, Volume II: Analysis and Documentation.

3. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.

4. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.

5. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. CO_2 = 1; CH_4 = 25; N_2O = 298

Mobile Emissions-Baseline (2021)

					Annual Emissions (tons/year)										Annual Emissions (metric tons)[5]			
Alternative	Analysis Year	Daily VMT (miles/day)[1]	Days per Year[2]	Annual VMT (miles/year)	ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Baseline	2021	456,869,300	347	158,533,647,100	4,769.6	38,519.7	211,583.4	680.2	56,532.7	586.3	57,119.0	14,379.3	550.6	14,929.9	63,753,693.9	1,880.6	2,988.6	64,691,322.0

Notes:

1. Daily VMT values from Project Traffic Study.

2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
Source: CARB, 2008. Climate Change Draft Scoping Plan Appendices, Volume II: Analysis and Documentation.

3. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.

4. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.

5. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. CO_2 = 1; CH_4 = 25; N_2O = 298

Mobile Emissions-No Project Alternative (2045)					Running Emission Factor (grams/mile)[3,4]												
Alternative	Analysis Year	Daily VMT (miles/day)[1]	Days per Year[2]	Annual VMT (miles/year)	ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
No Project	2045	568,557,200	347	197,289,348,400	0.01	0.07	0.50	0.003	0.32	0.002	0.33	0.08	0.002	0.08	285.87	0.003	0.01

Notes:

1. Daily VMT values from Project Traffic Study.
2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.

Source: CARB, 2008. Climate Change Draft Scoping Plan Appendices, Volume II: Analysis and Documentation.

3. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.
4. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
5. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. $CO_2 = 1$; $CH_4 = 25$; $N_2O = 298$

Mobile Emissions-No Project Alternative (2045)

Alternative	Analysis Year	Daily VMT (miles/day)[1]	Days per Year[2]	Annual VMT (miles/year)	Daily Emissions (lb/day)												
					ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
No Project	2045	568,557,200	347	197,289,348,400	8987.2	88927.3	623263.9	3486.9	406855.5	2046.8	408902.3	103550.8	1936.0	105486.8	358320962.1	3957.5	16514.6

Notes:

1. Daily VMT values from Project Traffic Study.
2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
   Source: CARB, 2008. Climate Change Draft Scoping Plan Appendices, Volume II: Analysis and Documentation.
3. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.
4. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
5. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. $CO_2 = 1$; $CH_4 = 25$; $N_2O = 298$

Mobile Emissions-No Project Alternative (2045)					Annual Emissions (tons/year)										Annual Emissions (metric tons)[5]			
Alternative	Analysis Year	Daily VMT (miles/day)[1]	Days per Year[2]	Annual VMT (miles/year)	ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
No Project	2045	568,557,200	347	197,289,348,400	1559.3	15428.9	108136.3	605.0	70589.4	355.1	70944.6	17966.1	335.9	18302.0	56398551.2	622.9	2599.3	57188729.7

Notes:

1. Daily VMT values from Project Traffic Study.
2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
Source: CARB, 2008. Climate Change Draft Scoping Plan Appendices, Volume II: Analysis and Documentation.
3. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.
4. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
5. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. $CO_2 = 1$; $CH_4 = 25$; $N_2O = 298$

Alternative 3 Mobile Emissions Summary (2045)

Scenario	Analysis Year	Daily VMT	Annual VMT	Daily Emissions (lb/day)												
				ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Alternative 3[1]	2045	568,106,100	197,132,816,700	8,980.0	88,856.7	622,769.4	3,484.1	406,532.7	2,045.2	408,577.9	103,468.7	1,934.4	105,403.1	358,036,666.1	3,954.3	16,501.5
Employee Travel to MSF[2]	2045	9,989	3,466,183	1.0	2.2	13.6	0.1	7.1	0.0	7.2	1.8	0.04	1.9	6,421.9	0.1	0.3
Total Mobile Emissions				**8,981.0**	**88,858.9**	**622,783.0**	**3,484.2**	**406,539.8**	**2,045.2**	**408,585.1**	**103,470.5**	**1,934.5**	**105,404.9**	**358,043,088.0**	**3,954.5**	**16,501.9**

Notes:

VMT = vehicle miles traveled

1. Daily VMT values from Project Traffic Study.

2. Accounts for employee trips to and from Operations Maintenace and Storage Facilities (main MSF and e-Bus MSF).

Alternative 3 Mobile Emissions Summary (2045)

Scenario	Analysis Year	Daily VMT	Annual VMT	Annual Emissions (tons/year) ROG	NO_x	CO	SO_x	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	Annual Emissions (metric tons) CO_2	CH_4	N_2O	CO_2e
Alternative 3[1]	2045	568,106,100	197,132,816,700	1,558.0	15,416.6	108,050.5	604.5	70,533.4	354.8	70,888.3	17,951.8	335.6	18,287.4	56,353,803.9	622.4	2,597.3	57,143,355.5
Employee Travel to MSF[2]	2045	9,989	3,466,183	0.167	0.380	2.362	0.011	1.240	0.0065	1.247	0.316	0.0061	0.322	1,010.8	0.019	0.052	1,026.9
			Total Mobile Emissions	**1,558.2**	**15,417.0**	**108,052.9**	**604.5**	**70,534.7**	**354.8**	**70,889.5**	**17,952.1**	**335.6**	**18,287.8**	**56,354,814.7**	**622.4**	**2,597.3**	**57,144,382.4**

Notes:

VMT = vehicle miles traveled

1. Daily VMT values from Project Traffic Study.

2. Accounts for employee trips to and from Operations Maintenace and Storage Facilities (main MSF and e-Bus MSF).

Mobile Emissions-Alternative 3 VMT Analysis (2045)

Alternative	Analysis Year	Daily VMT (miles/day)[1]	Days per Year[2]	Annual VMT (miles/year)	Running Emission Factor (grams/mile)[3,4]												
					ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Alternative 3	2045	568,106,100	347	197,132,816,700	0.007	0.071	0.497	0.003	0.325	0.002	0.326	0.083	0.002	0.084	285.867	0.003	0.013

Notes:

1. Daily VMT values from Project Traffic Study.
2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
Source: CARB, 2008. Climate Change Draft Scoping Plan Appendices, Volume II: Analysis and Documentation.
3. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.
4. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
5. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. $CO_2 = 1$; $CH_4 = 25$; $N_2O = 298$

Mobile Emissions-Alternative 3 VMT Analysis (2045)

Alternative	Analysis Year	Daily VMT (miles/day)[1]	Days per Year[2]	Annual VMT (miles/year)	Daily Emissions (lb/day)												
					ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Alternative 3	2045	568,106,100	347	197,132,816,700	8980.0	88856.7	622769.4	3484.1	406532.7	2045.2	408577.9	103468.7	1934.4	105403.1	358036666.1	3954.3	16501.5

Notes:

1. Daily VMT values from Project Traffic Study.
2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
Source: CARB, 2008. Climate Change Draft Scoping Plan Appendices, Volume II: Analysis and Documentation.
3. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.
4. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
5. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. $CO_2 = 1$; $CH_4 = 25$; $N_2O = 298$

Mobile Emissions-Alternative 3 VMT Analysis (2045)					Annual Emissions (tons/year)										Annual Emissions (metric tons)[5]			
Alternative	Analysis Year	Daily VMT (miles/day)[1]	Days per Year[2]	Annual VMT (miles/year)	ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Alternative 3	2045	568,106,100	347	197,132,816,700	1558.0	15416.6	108050.5	604.5	70533.4	354.8	70888.3	17951.8	335.6	18287.4	56353803.9	622.4	2597.3	57143355.5

Notes:

1. Daily VMT values from Project Traffic Study.
2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
Source: CARB, 2008. Climate Change Draft Scoping Plan Appendices, Volume II: Analysis and Documentation.
3. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.
4. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
5. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. CO_2 = 1; CH_4 = 25; N_2O = 298

Mobile Emissions-Employee Travel (2045)

Alternative	Analysis Year	Employees per day[1]	Daily One-Way Trips[2]	One-Way Trip Length (miles)[3]	Daily VMT (miles/day)	Days per Year[4]	Trips per Year	Annual VMT (miles/year)	Running Emission Factor (grams/mile)[5,6]												
									ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Alternative 3	2045	350	700	14.3	9,989	347	242,900	3,466,183	0.01	0.07	0.50	0.003	0.32	0.002	0.33	0.08	0.002	0.08	285.87	0.003	0.01

Notes:

1. Data provided by LASRE team.
2. Accounts for employee trips to and from main MSF and e-Bus MSF.
3. Trip length based on CalEEMod default value for Non-Residential Home-Work trip length for Commercial Building.
4. Annual miles and trips are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
   Source: CARB, 2008. Climate Change Draft Scoping Plan
5. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.
6. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
7. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
8. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. $CO_2 = 1$; $CH_4 = 25$; $N_2O = 298$

Mobile Emissions-Employee Travel (2045)

Alternative	Analysis Year	Employees per day[1]	Daily One-Way Trips[2]	One-Way Trip Length (miles)[3]	Daily VMT (miles/day)	Days per Year[4]	Trips per Year	Annual VMT (miles/year)	Non-Running Emission Factor (grams/trip)[5,7]												
									ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Alternative 3	2045	350	700	14.3	9,989	347	242,900	3,466,183	0.52	0.41	1.73	0.00	-	0.00	0.00	-	0.00	0.00	82.01	0.03	0.03

Notes:

1. Data provided by LASRE team.
2. Accounts for employee trips to and from main MSF and e-Bus MSF.
3. Trip length based on CalEEMod default value for Non-Residential Home-Work trip length for Commercial Building.
4. Annual miles and trips are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
   Source: CARB, 2008. Climate Change Draft Scoping Plan
5. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.
6. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
7. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
8. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. $CO_2 = 1$; $CH_4 = 25$; $N_2O = 298$

Mobile Emissions-Employee Travel (2045)

Alternative	Analysis Year	Employees per day[1]	Daily One-Way Trips[2]	One-Way Trip Length (miles)[3]	Daily VMT (miles/day)	Days per Year[4]	Trips per Year	Annual VMT (miles/year)	Daily Emissions (lb/day)													
									ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Alternative 3	2045	350	700	14.3	9,989	347	242,900	3,466,183	0.96	2.19	13.62	0.06	7.15	0.04	7.19	1.82	0.04	1.85	6421.91	0.12	0.33

Notes:

1. Data provided by LASRE team.
2. Accounts for employee trips to and from main MSF and e-Bus MSF.
3. Trip length based on CalEEMod default value for Non-Residential Home-Work trip length for Commercial Building.
4. Annual miles and trips are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
   Source: CARB, 2008. Climate Change Draft Scoping Plan
5. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.
6. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
7. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
8. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. $CO_2 = 1$; $CH_4 = 25$; $N_2O = 298$

Mobile Emissions-Employee Travel (2045)

Alternative	Analysis Year	Employees per day[1]	Daily One-Way Trips[2]	One-Way Trip Length (miles)[3]	Daily VMT (miles/day)	Days per Year[4]	Trips per Year	Annual VMT (miles/year)	Annual Emissions (tons/year)										Annual Emissions (metric tons)[8]			
									ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Alternative 3	2045	350	700	14.3	9,989	347	242,900	3,466,183	0.167	0.380	2.362	0.011	1.240	0.006	1.247	0.316	0.006	0.322	1010.8	0.019	0.052	1026.9

Notes:

1. Data provided by LASRE team.
2. Accounts for employee trips to and from main MSF and e-Bus MSF.
3. Trip length based on CalEEMod default value for Non-Residential Home-Work trip length for Commercial Building.
4. Annual miles and trips are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
   Source: CARB, 2008. Climate Change Draft Scoping Plan
5. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.
6. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
7. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
8. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. $CO_2 = 1$; $CH_4 = 25$; $N_2O = 298$

Daily Paved Road Dust Emission Factor[1]

$$E_{ext} = [\, k\,(sL)^{0.91} \times (W)^{1.02} \,]\,(1 - P/4N)$$

Parameter	Description	Source:
E_{ext}	Annual or other long-term average emission factor in the same units as k	USEPA AP-42, Paved Roads Methodology
k	Particle size multiplier for particle size range and units of interest	CalEEMod Default Value
sL	road surface silt loading (g/m^2)	CalEEMod Default Value
W	average weight (tons) of all the vehicles raveling the road (2.4 tons)	CalEEMod Default Value
P	Number of "wet" days with at least 0.254 mm (0.01 in) of precipitation during the averaging period	Avg of CalEEMod default values for Van Nuys and Santa Monica
N	Number of days in the averaging period (e.g. 365 for annual, 91 for seasonal, 30 for monthly)	CalEEMod Default Value

Parameters	PM_{10}	$PM_{2.5}$
k (g/VMT)	1.000	0.250
sL (g/m^2)	0.1	0.1
W (tons)	2.4	2.4
P ("wet" days)[2]	19.1	19.1
N (days per year)	365	365
EF without natural dust control (precipitation) (g/mi)	3.00E-01	7.51E-02

Notes:

1. AP42, Section 13.2.1 Paved Roads, January 2011
2. Consistent with Appendix C of the CalEEMod User's Guide, daily road dust emission factors do not account for a precipitation adjustment.

MSF Operations CalEEMod Output Report

STC Alt 3-MSF Operations Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	STC Alt 3-MSF Operations
Operational Year	2045
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	18.6
Location	34.16099829872333, -118.4672501820317
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	3863
EDFZ	17
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.24

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
General Office Building	81.0	1000sqft	1.61	81,000	3,515	—	—	—

Parking Lot	395	1000sqft	9.07	0.00	19,750	—	—	—
Other Non-Asphalt Surfaces	667	1000sqft	15.3	0.00	33,363	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.73	2.68	0.03	3.52	< 0.005	0.01	0.00	0.01	< 0.005	0.00	< 0.005	68.2	545	613	6.89	0.07	0.20	805
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.10	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	68.2	530	599	6.89	0.07	0.20	791
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.53	2.50	0.02	2.41	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	68.2	540	608	6.89	0.07	0.20	801
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.46	0.46	< 0.005	0.44	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	11.3	89.4	101	1.14	0.01	0.03	133

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	2.73	2.68	0.03	3.52	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	14.5	14.5	< 0.005	< 0.005	—	14.5
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	506	506	0.00	0.00	—	506
Water	—	—	—	—	—	—	—	—	—	—	—	27.6	24.6	52.2	2.83	0.07	—	143
Waste	—	—	—	—	—	—	—	—	—	—	—	40.6	0.00	40.6	4.06	0.00	—	142
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.20	0.20
Total	2.73	2.68	0.03	3.52	< 0.005	0.01	0.00	0.01	< 0.005	0.00	< 0.005	68.2	545	613	6.89	0.07	0.20	805
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	2.10	2.10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	506	506	0.00	0.00	—	506
Water	—	—	—	—	—	—	—	—	—	—	—	27.6	24.6	52.2	2.83	0.07	—	143
Waste	—	—	—	—	—	—	—	—	—	—	—	40.6	0.00	40.6	4.06	0.00	—	142
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.20	0.20
Total	2.10	2.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	68.2	530	599	6.89	0.07	0.20	791
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	2.53	2.50	0.02	2.41	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.92	9.92	< 0.005	< 0.005	—	9.96
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	506	506	0.00	0.00	—	506
Water	—	—	—	—	—	—	—	—	—	—	—	27.6	24.6	52.2	2.83	0.07	—	143
Waste	—	—	—	—	—	—	—	—	—	—	—	40.6	0.00	40.6	4.06	0.00	—	142
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.20	0.20

Total	2.53	2.50	0.02	2.41	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	68.2	540	608	6.89	0.07	0.20	801
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	0.46	0.46	< 0.005	0.44	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.64	1.64	< 0.005	< 0.005	—	1.65
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	83.7	83.7	0.00	0.00	—	83.7
Water	—	—	—	—	—	—	—	—	—	—	—	4.57	4.08	8.65	0.47	0.01	—	23.7
Waste	—	—	—	—	—	—	—	—	—	—	—	6.72	0.00	6.72	0.67	0.00	—	23.5
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.03	0.03
Total	0.46	0.46	< 0.005	0.44	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	11.3	89.4	101	1.14	0.01	0.03	133

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	422	422	0.00	0.00	—	422
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	83.4	83.4	0.00	0.00	—	83.4
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	506	506	0.00	0.00	—	506
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	422	422	0.00	0.00	—	422
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	83.4	83.4	0.00	0.00	—	83.4
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	506	506	0.00	0.00	—	506
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	69.9	69.9	0.00	0.00	—	69.9
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	13.8	13.8	0.00	0.00	—	13.8
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	83.7	83.7	0.00	0.00	—	83.7

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	1.82	1.82	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.29	0.29	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.63	0.58	0.03	3.52	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	14.5	14.5	< 0.005	< 0.005	—	14.5
Total	2.73	2.68	0.03	3.52	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	14.5	14.5	< 0.005	< 0.005	—	14.5
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	1.82	1.82	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.29	0.29	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	2.10	2.10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consumer	0.33	0.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.05	0.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.08	0.07	< 0.005	0.44	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.64	1.64	< 0.005	< 0.005	—	1.65
Total	0.46	0.46	< 0.005	0.44	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.64	1.64	< 0.005	< 0.005	—	1.65

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	27.6	23.7	51.3	2.83	0.07	—	142
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.35	0.35	0.00	0.00	—	0.35
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.60	0.60	0.00	0.00	—	0.60
Total	—	—	—	—	—	—	—	—	—	—	—	27.6	24.6	52.2	2.83	0.07	—	143
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

General Office Building	—	—	—	—	—	—	—	—	—	—	—	27.6	23.7	51.3	2.83	0.07	—	142
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.35	0.35	0.00	0.00	—	0.35
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.60	0.60	0.00	0.00	—	0.60
Total	—	—	—	—	—	—	—	—	—	—	—	27.6	24.6	52.2	2.83	0.07	—	143
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	4.57	3.92	8.49	0.47	0.01	—	23.5
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.06	0.06	0.00	0.00	—	0.06
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.10	0.10	0.00	0.00	—	0.10
Total	—	—	—	—	—	—	—	—	—	—	—	4.57	4.08	8.65	0.47	0.01	—	23.7

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	40.6	0.00	40.6	4.06	0.00	—	142

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	40.6	0.00	40.6	4.06	0.00	—	142
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	40.6	0.00	40.6	4.06	0.00	—	142
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	40.6	0.00	40.6	4.06	0.00	—	142
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	6.72	0.00	6.72	0.67	0.00	—	23.5
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	6.72	0.00	6.72	0.67	0.00	—	23.5

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.20	0.20
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.20	0.20
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.20	0.20
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.20	0.20
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.03	0.03
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.03	0.03

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year

General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	121,500	40,500	63,736

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
General Office Building	1,751,502	88.0	0.0000	0.0000	0.00
Parking Lot	346,020	88.0	0.0000	0.0000	0.00

Other Non-Asphalt Surfaces	0.00	88.0	0.0000	0.0000	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Office Building	14,396,434	49,296
Parking Lot	0.00	276,986
Other Non-Asphalt Surfaces	0.00	467,902

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Office Building	75.3	—
Parking Lot	0.00	—
Other Non-Asphalt Surfaces	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	15.4	annual days of extreme heat
Extreme Precipitation	7.15	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score

Temperature and Extreme Heat	2	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	2	1	1	3
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	80.0
AQ-PM	68.9
AQ-DPM	79.9
Drinking Water	83.1
Lead Risk Housing	43.8
Pesticides	0.00
Toxic Releases	64.7
Traffic	99.8
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	14.3
Haz Waste Facilities/Generators	40.9
Impaired Water Bodies	77.3
Solid Waste	0.00
Sensitive Population	—
Asthma	37.7
Cardio-vascular	69.7
Low Birth Weights	73.3
Socioeconomic Factor Indicators	—

Education	23.7
Housing	57.4
Linguistic	25.6
Poverty	28.2
Unemployment	74.1

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	75.74746567
Employed	87.75824458
Median HI	58.59104324
Education	—
Bachelor's or higher	84.51174131
High school enrollment	100
Preschool enrollment	95.7141024
Transportation	—
Auto Access	45.25856538
Active commuting	52.31618119
Social	—
2-parent households	93.32734505
Voting	0.654433466
Neighborhood	—
Alcohol availability	29.15436931
Park access	23.72642115
Retail density	81.59887078

Supermarket access	31.14333376
Tree canopy	66.90619787
Housing	—
Homeownership	39.93327345
Housing habitability	38.27794174
Low-inc homeowner severe housing cost burden	10.18863082
Low-inc renter severe housing cost burden	48.80020531
Uncrowded housing	96.93314513
Health Outcomes	—
Insured adults	46.81124086
Arthritis	73.2
Asthma ER Admissions	67.3
High Blood Pressure	79.9
Cancer (excluding skin)	30.9
Asthma	69.3
Coronary Heart Disease	77.0
Chronic Obstructive Pulmonary Disease	79.3
Diagnosed Diabetes	89.8
Life Expectancy at Birth	81.3
Cognitively Disabled	93.6
Physically Disabled	55.6
Heart Attack ER Admissions	14.6
Mental Health Not Good	73.6
Chronic Kidney Disease	85.5
Obesity	67.3
Pedestrian Injuries	79.9
Physical Health Not Good	81.0

Stroke	80.6
Health Risk Behaviors	—
Binge Drinking	10.6
Current Smoker	71.8
No Leisure Time for Physical Activity	90.4
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	64.0
Elderly	56.5
English Speaking	57.1
Foreign-born	53.9
Outdoor Workers	52.2
Climate Change Adaptive Capacity	—
Impervious Surface Cover	44.9
Traffic Density	98.7
Traffic Access	72.0
Other Indices	—
Hardship	11.1
Other Decision Support	—
2016 Voting	42.4

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	65.0
Healthy Places Index Score for Project Location (b)	67.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No

Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Characteristics: Utility Information	This is a forecasted CO2e Intensity Factor for LADWP in 2045. SB100 will require electricity provided to customers to be from 100% renewable sources by 2045. SB100 allows for the use of renewable energy credits, which allows for natural gas to provide up to 10% of power generation, therefore the CO2e Intensity Factor accounts for some electricity generated from natural gas. Because it is a CO2e intensity factor, intensity factors for CH4 and N2O were zeroed-out.
Land Use	Assumed 5 percent of lot acreage would be landscaped.
Operations: Vehicle Data	Mobile emissions for employees at MSF calculated outside of CalEEMod.
Operations: Energy Use	For Office Buildings, CalEEMod generated default annual electricity (kWh) and natural gas consumption in kBTU/year, however, in accordance with the City of LA Municipal Code, all new buildings would be required to be all-electric buildings. Therefore, the annual natural gas consumption value (kBTU) was converted to kWh to account for the additional electricity consumption that is substituted for natural gas, and then added to the default electricity consumption value.

Station Operations CalEEMod Output Report

STC Alt 3-Station Operations Detailed Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	STC Alt 3-Station Operations
Operational Year	2045
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	18.6
Location	34.16148553391555, -118.46750417479822
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	3863
EDFZ	17
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.24

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Enclosed Parking with Elevator	813	1000sqft	18.7	896,966	40,668	—	—	—

Parking Lot	182	Space	1.64	0.00	3,568	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	7.14	6.60	0.33	39.0	< 0.005	0.07	0.00	0.07	0.05	0.00	0.05	0.00	975	975	0.01	< 0.005	0.00	975
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.19	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	814	814	0.00	0.00	0.00	814
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.95	4.58	0.22	26.7	< 0.005	0.05	0.00	0.05	0.04	0.00	0.04	0.00	924	924	< 0.005	< 0.005	0.00	924
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.90	0.84	0.04	4.88	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	153	153	< 0.005	< 0.005	0.00	153

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	7.14	6.60	0.33	39.0	< 0.005	0.07	—	0.07	0.05	—	0.05	—	160	160	0.01	< 0.005	—	161
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	813	813	0.00	0.00	—	813
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.79	0.79	0.00	0.00	—	0.79
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	7.14	6.60	0.33	39.0	< 0.005	0.07	0.00	0.07	0.05	0.00	0.05	0.00	975	975	0.01	< 0.005	0.00	975
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	0.19	0.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	813	813	0.00	0.00	—	813
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.79	0.79	0.00	0.00	—	0.79
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	0.19	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	814	814	0.00	0.00	0.00	814
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	4.95	4.58	0.22	26.7	< 0.005	0.05	—	0.05	0.04	—	0.04	—	110	110	< 0.005	< 0.005	—	110
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	813	813	0.00	0.00	—	813
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.79	0.79	0.00	0.00	—	0.79
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	4.95	4.58	0.22	26.7	< 0.005	0.05	0.00	0.05	0.04	0.00	0.04	0.00	924	924	< 0.005	< 0.005	0.00	924
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	0.90	0.84	0.04	4.88	< 0.005	0.01	—	0.01	0.01	—	0.01	—	18.2	18.2	< 0.005	< 0.005	—	18.3

Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	135	135	0.00	0.00	—	135
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.13	0.13	0.00	0.00	—	0.13
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	0.90	0.84	0.04	4.88	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	153	153	< 0.005	< 0.005	0.00	153

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	798	798	0.00	0.00	—	798
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	15.1	15.1	0.00	0.00	—	15.1
Total	—	—	—	—	—	—	—	—	—	—	—	—	813	813	0.00	0.00	—	813
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	798	798	0.00	0.00	—	798

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	15.1	15.1	0.00	0.00	—	15.1
Total	—	—	—	—	—	—	—	—	—	—	—	—	813	813	0.00	0.00	—	813
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	132	132	0.00	0.00	—	132
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	2.49	2.49	0.00	0.00	—	2.49
Total	—	—	—	—	—	—	—	—	—	—	—	—	135	135	0.00	0.00	—	135

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.12	0.12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	6.95	6.41	0.33	39.0	< 0.005	0.07	—	0.07	0.05	—	0.05	—	160	160	0.01	< 0.005	—	161
Total	7.14	6.60	0.33	39.0	< 0.005	0.07	—	0.07	0.05	—	0.05	—	160	160	0.01	< 0.005	—	161

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.12	0.12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.19	0.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.87	0.80	0.04	4.88	< 0.005	0.01	—	0.01	0.01	—	0.01	—	18.2	18.2	< 0.005	< 0.005	—	18.3
Total	0.90	0.84	0.04	4.88	< 0.005	0.01	—	0.01	0.01	—	0.01	—	18.2	18.2	< 0.005	< 0.005	—	18.3

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.73	0.73	0.00	0.00	—	0.73
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.06	0.06	0.00	0.00	—	0.06
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.79	0.79	0.00	0.00	—	0.79
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.73	0.73	0.00	0.00	—	0.73
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.06	0.06	0.00	0.00	—	0.06
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.79	0.79	0.00	0.00	—	0.79
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.12	0.12	0.00	0.00	—	0.12
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.01	0.01	0.00	0.00	—	0.01
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.13	0.13	0.00	0.00	—	0.13

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	36,600	4,067	53,081

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Enclosed Parking with Elevator	3,311,089	88.0	0.0000	0.0000	0.00
Parking Lot	62,504	88.0	0.0000	0.0000	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Enclosed Parking with Elevator	0.00	570,352
Parking Lot	0.00	50,040

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Enclosed Parking with Elevator	0.00	—
Parking Lot	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	15.4	annual days of extreme heat
Extreme Precipitation	7.15	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth

Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	2	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	2	1	1	3

Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	80.0
AQ-PM	68.9
AQ-DPM	79.9
Drinking Water	83.1
Lead Risk Housing	43.8
Pesticides	0.00
Toxic Releases	64.7
Traffic	99.8

Effect Indicators	—
CleanUp Sites	0.00
Groundwater	14.3
Haz Waste Facilities/Generators	40.9
Impaired Water Bodies	77.3
Solid Waste	0.00
Sensitive Population	—
Asthma	37.7
Cardio-vascular	69.7
Low Birth Weights	73.3
Socioeconomic Factor Indicators	—
Education	23.7
Housing	57.4
Linguistic	25.6
Poverty	28.2
Unemployment	74.1

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	75.74746567
Employed	87.75824458
Median HI	58.59104324
Education	—
Bachelor's or higher	84.51174131
High school enrollment	100

Preschool enrollment	95.7141024
Transportation	—
Auto Access	45.25856538
Active commuting	52.31618119
Social	—
2-parent households	93.32734505
Voting	0.654433466
Neighborhood	—
Alcohol availability	29.15436931
Park access	23.72642115
Retail density	81.59887078
Supermarket access	31.14333376
Tree canopy	66.90619787
Housing	—
Homeownership	39.93327345
Housing habitability	38.27794174
Low-inc homeowner severe housing cost burden	10.18863082
Low-inc renter severe housing cost burden	48.80020531
Uncrowded housing	96.93314513
Health Outcomes	—
Insured adults	46.81124086
Arthritis	73.2
Asthma ER Admissions	67.3
High Blood Pressure	79.9
Cancer (excluding skin)	30.9
Asthma	69.3
Coronary Heart Disease	77.0

Chronic Obstructive Pulmonary Disease	79.3
Diagnosed Diabetes	89.8
Life Expectancy at Birth	81.3
Cognitively Disabled	93.6
Physically Disabled	55.6
Heart Attack ER Admissions	14.6
Mental Health Not Good	73.6
Chronic Kidney Disease	85.5
Obesity	67.3
Pedestrian Injuries	79.9
Physical Health Not Good	81.0
Stroke	80.6
Health Risk Behaviors	—
Binge Drinking	10.6
Current Smoker	71.8
No Leisure Time for Physical Activity	90.4
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	64.0
Elderly	56.5
English Speaking	57.1
Foreign-born	53.9
Outdoor Workers	52.2
Climate Change Adaptive Capacity	—
Impervious Surface Cover	44.9
Traffic Density	98.7

Traffic Access	72.0
Other Indices	—
Hardship	11.1
Other Decision Support	—
2016 Voting	42.4

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	65.0
Healthy Places Index Score for Project Location (b)	67.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification

Characteristics: Utility Information	This is a forecasted CO2e Intensity Factor for LADWP in 2045. SB100 will require electricity provided to customers to be from 100% renewable sources by 2045. SB100 allows for the use of renewable energy credits, which allows for natural gas to provide up to 10% of power generation, therefore the CO2e Intensity Factor accounts for some electricity generated from natural gas. Because it is a CO2e intensity factor, intensity factors for CH4 and N2O were zeroed-out.
Land Use	CalEEMod does not have train station land use types, therefore, stations were represented using the "Enclosed Parking with Elevators" land use type. This land use type was selected because it accounts for electricity consumption from elevators and ventilation systems. Although aerial stations would not be enclosed, this land use type would result in a conservative estimate of electricity consumption. The building area represents the station area for all stations in this alternative. It was also assumed 5 percent of the lot acreage would be landscaped.

Alignment Electricity Consumption

LASRE Alternatives

Track Alignment Electricity Consumption for Design Year (2045)

LASRE Alternatives	Annual Consumption (MWh)[1]	2045 LADWP CO_2e Intensity Factor (lb/MWh)[2]	Annual GHG Emissions ($MTCO_2e$/yr)
Alternative 1	71,524	88	2856.4
Alternative 3	83,693	88	3342.4

Notes:

1. Electricity consumption values based on Energy Consumption During Operations Report (MRT.PH3.3.6.10.k.draft) Accounts for electricity consumption from all components (traction power for track alignment, stations, MSFs, e-buses, etc.).

2. This is a forecasted CO_2e Intensity Factor for LADWP in 2045. SB100 will require electricity provided to customers to be from 100% renewable sources by 2045. SB100 allows for the use of renewable energy credits, thus allowing for the combustion of natural gas to provide up to 10% of generation, thus the CO_2e Intensity Factor accounts for some electricity generated from natural gas.

lb = pound
MWh = Megawatt-hour
$MTCO_2e$ = metric tons of carbon dioxide equivalent

Emergency Generator Emissions

Emergency Generators

Generator Data

Parameter	Value
Rating (MW)[1]:	1.5
Rating (kVA)[1]:	1875
Horsepower (HP)[3]:	2346

										Emission Factor (g/bhp-hr)[5]													
Alternative	Generator Scenario	# of UG Stations	Generators per UG Station	# of Generators	M&T Daily Use per Generator (hours/day)	Annual M&T Usage (hour/year)[2]	Total Annual Tesing Hours (hours/year)	HP[3]	Load Factor[4]	ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Alternative 3	2 Underground Stations	2	1	2	1	50	100	2,346	0.73	1.02	4.56	2.60	0.005	-	0.15	0.15	-	0.15	0.15	521.64	0.0209	0.0041
Alternative 3	MSF	n/a	n/a	1	1	50	50	2,346	0.73	1.02	4.56	2.60	0.005	-	0.15	0.15	-	0.15	0.15	521.64	0.0209	0.0041

Notes:

M&T = Maintenance and Testing

1. Generator data from Emergency and Uninterruptible Power Supply Design Plans
2. SCAQMD 2021, Rule 1470. Generators shall not operate more than 50 hours per year for maintenance and testing.
3. HP obtained from spec sheet for Generac Diesel Generator-SD1500 (1875 kVA)
4. Load factor is based on CalEEMod default value for emergency generators.
5. Emission factors are based on CalEEMod default values for emergency generators.
6. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. CO_2 = 1; CH_4 = 25; N_2O = 298
7. The daily emissions conservatively assume all generators would be maintained and tested on the same day.

Emergency Generators

Generator Data

Parameter	Value
Rating (MW)[1]:	1.5
Rating (kVA)[1]:	1875
Horsepower (HP)[3]:	2346

										Daily Emissions (lb/day)													
Alternative	Generator Scenario	# of UG Stations	Generators per UG Station	# of Generators	M&T Daily Use per Generator (hours/day)	Annual M&T Usage (hour/year)[2]	Total Annual Tesing Hours (hours/year)	HP[3]	Load Factor[4]	ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Alternative 3	2 Underground Stations	2	1	2	1	50	100	2,346	0.73	7.70	34.43	19.63	0.04	-	1.13	1.13	-	1.13	1.13	3939.0	0.16	0.03
Alternative 3	MSF	n/a	n/a	1	1	50	50	2,346	0.73	3.85	17.22	9.82	0.02	-	0.57	0.57	-	0.57	0.57	1969.5	0.08	0.02
										11.55	51.65	29.45	0.06	-	1.70	1.70	-	1.70	1.70	5908.51	0.24	0.05

Notes:

M&T = Maintenance and Testing

1. Generator data from Emergency and Uninterruptible Power Supply Design Plans
2. SCAQMD 2021, Rule 1470. Generators shall not operate more than 50 hours per year for maintenance and testing.
3. HP obtained from spec sheet for Generac Diesel Generator-SD1500 (1875 kVA)
4. Load factor is based on CalEEMod default value for emergency generators.
5. Emission factors are based on CalEEMod default values for emergency generators.
6. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. CO_2 = 1; CH_4 = 25; N_2O = 298
7. The daily emissions conservatively assume all generators would be maintained and tested on the same day.

Emergency Generators

Generator Data

Parameter	Value
Rating (MW)[1]:	1.5
Rating (kVA)[1]:	1875
Horsepower (HP)[3]:	2346

										Annual Emissions (tons)										Annual Emissions (metric tons)[6]			
Alternative	Generator Scenario	# of UG Stations	Generators per UG Station	# of Generators	M&T Daily Use per Generator (hours/day)	Annual M&T Usage (hour/year)[2]	Total Annual Tesing Hours (hours/year)	HP[3]	Load Factor[4]	ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Alternative 3	2 Underground Stations	2	1	2	1	50	100	2,346	0.73	0.19	0.86	0.49	0.00	-	0.03	0.03	-	0.03	0.03	89.34	0.00	0.00	89.63
Alternative 3	MSF	n/a	n/a	1	1	50	50	2,346	0.73	0.10	0.43	0.25	0.00	-	0.01	0.01	-	0.01	0.01	44.67	0.00	0.00	44.82
										0.29	1.29	0.74	0.00	-	0.04	0.04	-	0.04	0.04	134.00	0.01	0.00	134.45

Notes:

M&T = Maintenance and Testing

1. Generator data from Emergency and Uninterruptible Power Supply Design Plans
2. SCAQMD 2021, Rule 1470. Generators shall not operate more than 50 hours per year for maintenance and testing.
3. HP obtained from spec sheet for Generac Diesel Generator-SD1500 (1875 kVA)
4. Load factor is based on CalEEMod default value for emergency generators.
5. Emission factors are based on CalEEMod default values for emergency generators.
6. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. CO_2 = 1; CH_4 = 25; N_2O = 298
7. The daily emissions conservatively assume all generators would be maintained and tested on the same day.

LADWP Forecasted CO_2e Intensity Factor Calculation for 2045

LADWP GHG Intensity Factors

2022 CO_2e Intensity Factor (lb/MWh)[1]
567

	2022 to 2045				
Resource Type	**2022 CO_2e Intensity Factor (lb/MWh)**	**2022 Power Mix**	**2045 Power Mix**	**% Change**	**2045 CO_2e Intensity Factor (lb/MWh)**
Renewables	0.0	35.6%	90%	153%	0.0
Non-Renewables	567.0	64.4%	10%	-84%	88.0
Totals	**567.0**	**100%**	**100%**	**N/A**	**88.0**

2022 POWER CONTENT LABEL
LADWP
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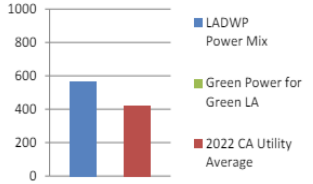
Greenhouse Gas Emissions Intensity (lbs CO_2e/MWh)			Energy Resources	LADWP Power Mix	Green Power for Green LA	2022 CA Power Mix
LADWP Power Mix	Green Power for Green LA	2022 CA Utility Average	**Eligible Renewable**[1]	**35.6%**	**100.0%**	**35.8%**
567	0	422	Biomass & Biowaste	0.1%	0.0%	2.1%
			Geothermal	7.5%	0.0%	4.7%
			Eligible Hydroelectric	0.6%	0.0%	1.1%
			Solar	14.1%	100.0%	17.0%
			Wind	13.3%	0.0%	10.8%
			Coal	**12.6%**	**0.0%**	**2.1%**
			Large Hydroelectric	**4.0%**	**0.0%**	**9.2%**
			Natural Gas	**34.5%**	**0.0%**	**36.4%**
			Nuclear	**13.3%**	**0.0%**	**9.2%**
			Other	**0.0%**	**0.0%**	**0.1%**
			Unspecified Power[2]	**0.0%**	**0.0%**	**7.1%**
			TOTAL	**100.0%**	**100.0%**	**100.0%**
			Percentage of Retail Sales Covered by Retired Unbundled RECs[3]**:**	**3%**	**0%**	



[1]The eligible renewable percentage above does not reflect RPS compliance, which is determined using a different methodology.
[2]Unspecified power is electricity that has been purchased through open market transactions and is not traceable to a specific generation source.
[3]Renewable energy credits (RECs) are tracking instruments issued for renewable generation. Unbundled renewable energy credits (RECs) represent renewable generation that was not delivered to serve retail sales. Unbundled RECs are not reflected in the power mix or GHG emissions intensities above.
The unbundled RECs retired in association with LADWP's 2022 electricity portfolios were sourced from eligible renewable energy generators such as biomass, biowaste, geothermal, eligible hydroelectric, solar, and wind energy resources.

For specific information about this electricity portfolio, contact:	**Los Angeles Department of Water and Power 1-800-DIAL-DWP**
For general information about the Power Content Label, visit:	https://www.energy.ca.gov/programs-and-topics/programs/power-source-disclosure-program

Notes:

1. LADWP, 2022. Power Content Label
2. SB100 would require renewable energy and zero-carbon resources to supply 100 percent of electric retail sales to end-use customers by 2045. Los Angeles Department of Water and Power (LADWP) Strategic Long-Term Resource Plan (SLTRP) was developed to meet this requirement and even exceed this requirement by meeting the 100% renewables goal by 2035. To be conservative, it was assumed that LADWP's power mix would be compliant with SB100's standard schedule of 2045 due to uncertainty in assumptions made to meet the 2035 date. SB100 allows for the use of renewable energy credits which are a market-based mechanism to help meet renewable energy targets. This allows natural gas generation to help meet the 100% target if offset by the purchase of RECs. Therefore, it was assumed that natural gas could provide up to 10% of electricity generation in 2045, thus the CO_2e Intensity Factor accounts for some electricity generated from natural gas.

Appendix A-4.1: Alternative 4 Unmitigated Construction Emissions

Sepulveda Transit Corridor Project - ALTERNATIVE 4
Maximum Regional (Offsite + Onsite) Daily Emissions

						Max Day Date									
						12/28/2032	2/11/2032	6/1/2032	6/1/2030	6/1/2030	6/1/2030	6/1/2030	3/1/2032	3/1/2032	3/1/2032
						Daily Emissions (lb/day)									
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Hours per Workday**	**ROG**	**NO_X**	**CO**	**SO_X**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	0.750	7.721	16.426	0.034	1.858	0.109	1.966	0.348	0.103	0.451
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	0.699	3.474	26.268	0.045	0.922	0.123	1.045	0.203	0.119	0.322
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	0.981	26.547	25.770	0.234	10.467	0.462	10.929	2.110	0.443	2.553
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	0.750	5.923	18.160	0.048	2.156	0.172	2.327	0.371	0.163	0.534
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	2.218	15.109	56.822	0.114	1.178	0.459	1.637	0.277	0.436	0.712
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	1.531	**43.696**	47.538	**0.386**	**16.981**	**0.736**	**17.717**	**3.399**	**0.708**	**4.107**
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	2.128	14.858	**56.299**	0.113	1.179	0.426	1.605	0.277	0.405	0.683
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	2/13/2030	4/13/2032	7	791	20	0.622	**7.096**	7.339	**0.029**	**1.650**	**0.118**	**1.768**	**0.288**	**0.110**	**0.398**
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenu	4/14/2032	9/30/2033	7	535	20	**0.429**	5.620	**5.335**	0.022	1.418	0.092	1.509	0.239	0.085	0.324
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installatic	10/1/2033	5/15/2034	7	227	20	1.712	15.624	19.523	0.044	0.920	0.231	1.151	0.212	0.213	0.425
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	0.773	7.361	16.490	0.030	1.013	0.116	1.129	0.211	0.109	0.320
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	0.710	3.504	26.433	0.045	0.922	0.124	1.046	0.203	0.120	0.323
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	0.762	12.960	23.387	0.118	4.653	0.248	4.901	0.946	0.238	1.185
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	0.747	5.418	18.106	0.044	1.692	0.168	1.860	0.302	0.159	0.460
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2.262	15.241	57.041	0.114	1.178	0.476	1.653	0.277	0.451	0.728
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	1.629	**48.681**	**48.683**	**0.426**	**18.980**	**0.802**	**19.782**	**3.770**	**0.772**	**4.542**
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	**2.128**	14.858	56.299	0.113	1.179	0.426	1.605	0.277	0.405	0.683
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Fill	3/1/2029	12/31/2032	7	1402	20	**0.650**	**7.313**	**7.454**	**0.031**	**1.765**	**0.128**	**1.893**	**0.305**	**0.119**	**0.424**
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Slabs, Walkways, Plenum	9/3/2032	8/31/2034	7	728	20	**0.442**	6.150	5.511	0.026	1.881	0.097	1.978	0.308	0.090	0.398
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	1.188	11.040	21.337	0.044	0.920	0.200	1.120	0.212	0.186	0.398
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	1.295	14.100	30.436	0.055	1.697	0.179	1.876	0.326	0.170	0.495
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	3.348	23.809	97.721	**0.169**	**2.267**	**0.691**	**2.958**	0.495	0.655	1.151
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	2.093	**15.447**	**68.084**	**0.124**	**1.285**	**0.413**	**1.698**	**0.295**	**0.395**	**0.690**
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	**2.057**	15.391	**67.716**	0.123	1.273	0.407	1.680	0.291	0.390	0.681
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	11/20/2030	1/15/2031	6	49	20	1.293	10.969	54.357	0.106	1.219	0.221	1.440	0.269	0.217	0.486
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	**1.412**	**11.297**	**54.201**	0.105	1.323	0.253	1.576	**0.283**	**0.247**	**0.530**
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	1/5/2034	2/3/2034	6	26	20	1.240	10.845	53.880	0.106	1.220	0.214	1.435	0.269	0.211	0.481
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	2.436	25.645	33.875	0.068	1.428	0.277	1.705	0.322	0.257	0.579
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	2.000	16.188	36.647	0.077	1.168	0.283	1.452	0.256	0.267	0.523
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	8/18/2032	8/15/2033	6	311	20	**2.079**	6.327	21.478	0.047	1.374	0.170	1.544	0.287	0.161	0.448
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	0.708	8.030	16.244	**0.038**	**2.750**	**0.098**	**2.848**	0.493	0.093	0.586
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	**0.418**	**4.203**	**13.425**	0.031	0.895	0.066	0.961	**0.187**	**0.064**	**0.251**
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	1.386	13.944	30.681	0.051	0.934	0.222	1.155	0.199	0.208	0.407
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	1.210	6.493	49.800	0.082	0.922	0.241	1.163	0.203	0.233	0.436
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	1.256	20.194	36.755	0.161	5.660	0.367	6.027	1.148	0.352	1.500
Metro E Line Stn_U-Alt4-TBM Pass Through-Maintenance	6/1/2030	7/31/2030	6	52	20	0.400	2.526	10.723	**0.022**	**0.288**	**0.093**	**0.381**	0.054	0.089	0.143
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	1.578	**17.702**	43.836	**0.095**	**2.041**	**0.315**	**2.356**	0.426	0.300	0.726
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	**1.380**	**13.005**	**14.090**	0.037	0.919	0.275	1.194	**0.211**	**0.254**	**0.465**
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	1.054	6.286	15.238	0.031	0.764	0.100	0.864	0.172	0.094	0.267
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	1.333	13.724	30.506	0.050	0.968	0.192	1.160	0.204	0.181	0.385
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	1.197	6.462	49.643	0.082	0.922	0.240	1.162	0.203	0.232	0.435
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	1.280	21.619	37.015	**0.173**	**6.260**	**0.389**	**6.650**	1.268	0.373	1.642
Santa Monica Stn_U-Alt4-TBM Pass Through-Maintenance	1/1/2031	2/28/2031	6	51	20	0.397	2.518	10.692	0.022	0.288	0.093	0.380	0.054	0.088	0.142
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	1.590	**18.282**	**43.983**	0.099	2.373	0.323	2.696	**0.481**	**0.307**	**0.788**
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	**1.361**	13.047	**14.043**	0.037	1.051	0.266	1.318	0.226	0.246	0.472
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	1.295	14.059	30.434	0.054	1.788	0.178	1.967	0.338	0.169	0.507
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	1.207	6.881	49.775	**0.086**	**1.269**	**0.244**	**1.513**	0.255	0.236	0.491
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	1.380	29.371	38.330	**0.239**	**9.675**	**0.509**	**10.183**	1.953	0.488	2.440
D Line Wilshire-Westwood Stn_U-Alt4-TBM Pass Through-Maintenance	8/1/2031	9/30/2031	6	52	20	0.397	2.518	10.692	0.022	0.288	0.093	0.380	0.054	0.088	0.142
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	**1.565**	**18.474**	**43.890**	0.101	2.606	0.316	2.922	**0.516**	**0.301**	**0.817**
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	**1.361**	13.047	14.043	0.037	1.051	0.266	1.318	0.226	0.246	0.472
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	1.333	13.724	30.506	0.050	0.901	0.192	1.093	0.194	0.181	0.374
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	1.204	6.742	49.731	0.085	1.154	0.242	1.396	0.237	0.235	0.472
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	1.288	22.095	37.101	**0.177**	**6.461**	**0.397**	**6.858**	1.309	0.380	1.689
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	1.570	**17.233**	43.749	0.091	1.841	0.307	2.149	**0.386**	**0.292**	**0.679**
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	**1.519**	17.572	43.500	0.094	2.043	0.296	2.339	0.427	0.283	0.710
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	1.340	12.882	13.892	0.037	0.920	0.258	1.178	0.212	0.238	0.450
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	1.218	**13.406**	30.066	0.050	1.194	0.143	1.337	**0.239**	**0.136**	**0.374**
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	**1.522**	8.946	**59.606**	0.106	1.233	0.324	1.557	0.271	0.313	0.584
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	1.880	15.086	69.042	0.122	1.169	0.266	1.435	0.265	0.259	0.525
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	2.858	23.568	80.895	0.149	1.739	0.351	2.090	0.401	0.339	0.740
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	0.873	5.928	15.159	0.027	0.702	0.089	0.791	0.149	0.084	0.232

Sepulveda Transit Corridor Project - ALTERNATIVE 4
Maximum Regional (Offsite + Onsite) Daily Emissions

						Max Day Date									
						12/28/2032	2/11/2032	6/1/2032	6/1/2030	6/1/2030	6/1/2030	6/1/2030	3/1/2032	3/1/2032	3/1/2032
						Daily Emissions (lb/day)									
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Hours per Workday**	**ROG**	**NO_X**	**CO**	**SO_X**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	1.218	13.406	30.066	0.050	0.896	0.143	1.039	0.194	0.136	0.329
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	1.533	**8.974**	59.741	0.107	1.233	0.325	1.558	**0.271**	**0.314**	**0.585**
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	1.902	15.140	**69.196**	0.122	1.169	0.273	1.442	0.265	0.266	0.532
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	**2.898**	23.693	81.102	0.149	1.739	0.370	2.108	0.401	0.356	0.756
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	1.249	13.499	30.202	**0.050**	**1.094**	**0.156**	**1.250**	0.224	0.148	0.371
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	1.198	7.062	49.631	0.088	1.245	0.248	1.492	0.262	0.240	0.502
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	1.511	15.461	43.269	0.075	0.999	0.271	1.269	0.222	0.258	0.480
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	**2.898**	**23.693**	**81.102**	0.149	1.739	0.370	2.108	**0.401**	**0.356**	**0.756**
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	0.936	6.005	15.287	0.028	0.702	0.100	0.802	0.149	0.094	0.243
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	1.287	13.605	30.348	0.050	1.013	0.171	1.184	0.211	0.162	0.373
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	1.561	9.186	60.107	0.108	1.348	0.330	1.678	0.288	0.318	0.606
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	1.966	15.285	69.589	**0.122**	**1.169**	**0.293**	**1.462**	0.265	0.285	0.550
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	**2.955**	**23.840**	**81.358**	0.149	1.738	0.392	2.130	**0.400**	**0.376**	**0.777**
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	**1.896**	7.475	15.620	0.040	1.322	0.130	1.452	0.274	0.123	0.397
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	0.219	2.534	5.420	0.009	0.340	0.033	0.373	0.067	0.031	0.099
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	0.234	1.429	7.561	0.015	0.455	0.047	0.503	0.085	0.045	0.130
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	0.329	2.995	10.005	0.022	0.598	0.045	0.644	0.122	0.044	0.167
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	0.286	3.008	4.107	0.008	0.339	0.041	0.381	0.067	0.038	0.106
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	0.716	**8.154**	19.062	0.062	8.571	0.149	8.720	**2.562**	**0.143**	**2.705**
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	0.569	**2.629**	28.041	0.050	5.390	0.096	5.486	**2.595**	**0.095**	**2.691**
MSF-Grading	3/1/2032	7/31/2032	6	132	10	0.803	4.596	**34.821**	0.062	2.894	0.137	3.031	**1.037**	**0.135**	**1.171**
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	**3.757**	4.179	17.467	0.039	1.271	0.100	1.371	0.270	0.096	0.366
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2.920	5.402	11.684	0.044	1.951	0.115	2.066	0.402	0.110	0.511
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	0.136	1.072	1.724	0.003	0.236	0.009	0.244	0.041	0.008	0.049
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	**0.462**	4.064	10.470	0.018	0.547	0.046	0.593	0.120	0.043	0.163
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	**2.656**	**28.762**	**54.090**	**0.198**	**17.007**	**0.706**	**17.713**	**3.016**	**0.666**	**3.681**
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	**1.327**	**13.801**	**41.490**	**0.082**	**1.579**	**0.221**	**1.800**	**0.339**	**0.213**	**0.552**
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	**1.326**	**13.717**	**41.487**	**0.081**	**1.553**	**0.220**	**1.773**	**0.332**	**0.211**	**0.543**
					Maximum Daily Emissions[1]	**38.50**	**359.41**	**900.35**	**2.53**	**94.07**	**6.53**	**100.60**	**21.32**	**6.21**	**27.53**
					SCAQMD Regional Significance Thresholds[2]	75	100	550	150	n/a	n/a	150	n/a	n/a	55
					Threshold Exceeded?	No	Yes	Yes	No	--	--	No	--	--	No

Notes:

1. Maximum daily emissions are based on the sum of daily emissions from individual phases whose schedules overlap.
2. SCAQMD, Air Quality Significance Thresholds, April 2019.
3. Highlighted cells indicate phases that contribute to maximum daily emissions.

Sepulveda Transit Corridor Project - ALTERNATIVE 4

Maximum Regional (Offsite + Onsite) Daily Emissions per Construction Year

	Maximum Daily Emissions (lb/day)									
Construction Year	**ROG**	**NO_X**	**CO**	**SO_X**	**PM_{10} Fugitive**	**PM_{10} Exhaust**	**PM_{10} Total**	**$PM_{2.5}$ Fugitive**	**$PM_{2.5}$ Exhaust**	**$PM_{2.5}$ Total**
2027	2.16	21.30	57.11	0.10	1.95	0.35	2.28	0.41	0.33	0.73
2028	12.20	113.18	331.19	0.70	26.62	2.37	28.53	5.03	2.25	7.15
2029	20.09	246.26	600.59	1.86	67.02	4.92	71.76	13.08	4.71	17.78
2030	26.24	339.33	746.70	**2.53**	**94.07**	6.56	**100.60**	18.49	6.27	24.74
2031	28.56	340.39	787.77	2.30	82.83	6.33	88.73	16.32	6.04	21.96
2032	**38.50**	**359.41**	**900.35**	2.48	93.52	**6.67**	100.01	**21.32**	**6.38**	**27.53**
2033	33.14	247.01	715.52	1.46	28.46	4.70	33.16	6.00	4.47	10.46
2034	24.35	195.44	442.30	0.91	18.60	3.18	21.77	4.01	2.99	7.00
2035	18.63	119.10	294.09	0.62	13.28	2.09	15.37	2.88	1.98	4.85
2036	1.33	13.80	41.49	0.08	1.58	0.22	1.80	0.34	0.21	0.55
2037	1.33	13.80	41.49	0.08	1.58	0.22	1.80	0.34	0.21	0.55
Maximum Daily Emissions	**38.50**	**359.41**	**900.35**	**2.53**	**94.07**	**6.67**	**100.60**	**21.32**	**6.38**	**27.53**
SCAQMD Regional Thresholds	75	100	550	150	n/a	n/a	150	n/a	n/a	55
Threshold Exceeded?	**No**	**Yes**	**Yes**	**No**	--	--	**No**	--	--	**No**

Notes:

1. Maximum daily emissions are based on the sum of daily emissions from individual phases whose schedules overlap.
2. SCAQMD, Air Quality Significance Thresholds, April 2019.
3. Highlighted cells indicate daily maximum emissions.

Sepulveda Transit Corridor Project - ALTERNATIVE 4

Total Regional (Offsite + Onsite) Emissions per Construction Phase

						Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	0.03	0.30	0.64	1.33E-03	0.072	0.004	0.077	0.014	0.004	0.018	120.46	0.0033	0.0061	122.37
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	0.04	0.18	1.37	2.35E-03	0.048	0.006	0.054	0.011	0.006	0.017	226.46	0.0084	0.0036	227.73
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	0.05	1.38	1.34	1.22E-02	0.544	0.024	0.568	0.110	0.023	0.133	1169.88	0.0078	0.1575	1217.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	0.02	0.15	0.44	1.18E-03	0.053	0.004	0.057	0.009	0.004	0.013	111.19	0.0029	0.0064	113.18
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	0.14	0.95	3.58	7.18E-03	0.074	0.029	0.103	0.017	0.027	0.045	664.74	0.0243	0.0134	669.34
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	0.61	17.28	18.80	1.53E-01	6.716	0.291	7.007	1.344	0.280	1.625	14696.53	0.1134	1.9262	15273.37
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	0.10	0.68	2.56	5.15E-03	0.054	0.019	0.073	0.013	0.018	0.031	477.83	0.0174	0.0093	481.04
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	2/13/2030	4/13/2032	7	791	20	0.25	2.81	2.90	1.16E-02	0.652	0.047	0.699	0.114	0.044	0.158	1073.35	0.0152	0.1121	1107.14
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	4/14/2032	9/30/2033	7	535	20	0.11	1.50	1.43	5.78E-03	0.379	0.024	0.404	0.064	0.023	0.087	529.39	0.0091	0.0472	543.68
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	10/1/2033	5/15/2034	7	227	20	0.19	1.77	2.22	4.99E-03	0.104	0.026	0.131	0.024	0.024	0.048	393.09	0.0115	0.0163	398.23
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	0.05	0.48	1.08	1.97E-03	0.066	0.008	0.074	0.014	0.007	0.021	177.37	0.0056	0.0063	179.40
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	0.04	0.18	1.39	2.38E-03	0.048	0.007	0.055	0.011	0.006	0.017	229.06	0.0085	0.0037	230.37
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	0.04	0.67	1.22	6.15E-03	0.242	0.013	0.255	0.049	0.012	0.062	593.03	0.0074	0.0666	613.05
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	0.02	0.14	0.48	1.17E-03	0.045	0.004	0.049	0.008	0.004	0.012	109.19	0.0032	0.0052	110.81
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	0.14	0.93	3.48	6.97E-03	0.072	0.029	0.101	0.017	0.028	0.044	644.94	0.0236	0.0132	649.45
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	1.14	33.96	33.96	2.97E-01	13.238	0.560	13.798	2.630	0.538	3.168	28608.34	0.2033	3.8207	29752.01
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	0.10	0.67	2.53	5.10E-03	0.053	0.019	0.072	0.012	0.018	0.031	472.58	0.0172	0.0092	475.76
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Fill	3/1/2029	12/31/2032	7	1402	20	0.46	5.13	5.23	2.15E-02	1.237	0.090	1.327	0.214	0.083	0.297	1994.95	0.0272	0.2132	2059.17
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Slabs, Walkways, Plenum	9/3/2032	8/31/2034	7	728	20	0.16	2.24	2.01	9.46E-03	0.685	0.035	0.720	0.112	0.033	0.145	873.64	0.0126	0.0884	900.30
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	0.20	1.82	3.51	7.19E-03	0.151	0.033	0.184	0.035	0.031	0.065	635.37	0.0193	0.0239	642.96
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	0.13	1.45	3.13	5.63E-03	0.175	0.018	0.193	0.034	0.017	0.051	504.08	0.0161	0.0180	509.85
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	0.40	2.82	11.58	2.01E-02	0.269	0.082	0.351	0.059	0.078	0.136	1931.48	0.0726	0.0285	1941.77
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	0.90	6.67	29.38	5.33E-02	0.555	0.178	0.733	0.127	0.171	0.298	5103.17	0.1970	0.0571	5125.12
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	0.19	1.42	6.23	1.13E-02	0.117	0.037	0.155	0.027	0.036	0.063	1083.69	0.0417	0.0115	1088.16
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	11/20/2030	1/15/2031	6	49	20	0.03	0.27	1.33	2.60E-03	0.030	0.005	0.035	0.007	0.005	0.012	255.22	0.0093	0.0054	257.06
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	0.66	5.25	25.20	4.90E-02	0.615	0.118	0.733	0.132	0.115	0.246	4802.90	0.1725	0.1061	4838.81
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	1/5/2034	2/3/2034	6	26	20	0.02	0.14	0.70	1.37E-03	0.016	0.003	0.019	0.004	0.003	0.006	134.64	0.0049	0.0027	135.58
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	0.29	3.00	3.96	7.90E-03	0.167	0.032	0.199	0.038	0.030	0.068	648.08	0.0204	0.0203	654.65
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	0.15	1.25	2.84	5.99E-03	0.091	0.022	0.112	0.020	0.021	0.041	522.15	0.0177	0.0140	526.77
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	8/18/2032	8/15/2033	6	311	20	0.32	0.98	3.34	7.25E-03	0.214	0.026	0.240	0.045	0.025	0.070	706.22	0.0176	0.0437	719.67
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	0.02	0.22	0.45	1.05E-03	0.077	0.003	0.080	0.014	0.003	0.016	96.23	0.0023	0.0059	98.06
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	0.31	3.14	10.02	2.28E-02	0.668	0.049	0.717	0.139	0.048	0.187	2173.14	0.0599	0.1108	2207.67
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	0.14	1.45	3.19	5.26E-03	0.097	0.023	0.120	0.021	0.022	0.042	466.90	0.0164	0.0116	470.76
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	0.16	0.85	6.50	1.08E-02	0.120	0.031	0.152	0.026	0.030	0.057	1035.32	0.0400	0.0128	1040.12
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	0.20	3.14	5.72	2.50E-02	0.880	0.057	0.937	0.179	0.055	0.233	2414.50	0.0368	0.2464	2488.86
Metro E Line Stn_U-Alt4-TBM Pass Through-Maintenance	6/1/2030	7/31/2030	6	52	20	0.01	0.07	0.28	5.65E-04	0.007	0.002	0.010	0.001	0.002	0.004	53.10	0.0020	0.0006	53.34
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	0.49	5.53	13.70	2.96E-02	0.638	0.098	0.736	0.133	0.094	0.227	2848.94	0.0873	0.1178	2886.23
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	0.54	5.10	5.52	1.45E-02	0.360	0.108	0.468	0.083	0.099	0.182	1182.44	0.0326	0.0563	1200.02
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	0.03	0.15	0.37	7.52E-04	0.019	0.002	0.021	0.004	0.002	0.007	70.66	0.0020	0.0033	71.70
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	0.14	1.41	3.14	5.19E-03	0.100	0.020	0.119	0.021	0.019	0.040	461.17	0.0162	0.0113	464.93
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	0.16	0.86	6.58	1.09E-02	0.122	0.032	0.154	0.027	0.031	0.058	1049.88	0.0404	0.0128	1054.70
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	0.20	3.38	5.79	2.70E-02	0.980	0.061	1.041	0.198	0.058	0.257	2611.63	0.0372	0.2766	2694.99
Santa Monica Stn_U-Alt4-TBM Pass Through-Maintenance	1/1/2031	2/28/2031	6	51	20	0.01	0.06	0.27	5.53E-04	0.007	0.002	0.010	0.001	0.002	0.004	52.04	0.0020	0.0006	52.27
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	0.49	5.67	13.63	3.08E-02	0.736	0.100	0.836	0.149	0.095	0.244	2956.47	0.0867	0.1374	2999.58
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	0.53	5.06	5.44	1.44E-02	0.407	0.103	0.511	0.088	0.095	0.183	1178.46	0.0320	0.0571	1196.28
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	0.13	1.46	3.17	5.64E-03	0.186	0.019	0.205	0.035	0.018	0.053	504.75	0.0163	0.0175	510.39
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	0.16	0.90	6.55	1.13E-02	0.167	0.032	0.199	0.033	0.031	0.065	1084.82	0.0402	0.0195	1091.62
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	0.22	4.60	6.00	3.74E-02	1.514	0.080	1.594	0.306	0.076	0.382	3600.84	0.0379	0.4325	3730.66
D Line Wilshire-Westwood Stn_U-Alt4-TBM Pass Through-Maintenance	8/1/2031	9/30/2031	6	52	20	0.01	0.07	0.28	5.64E-04	0.007	0.002	0.010	0.001	0.002	0.004	53.06	0.0020	0.0006	53.30
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	0.43	5.02	11.94	2.75E-02	0.709	0.086	0.795	0.140	0.082	0.222	2641.69	0.0759	0.1281	2681.75
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	0.53	5.13	5.52	1.46E-02	0.413	0.105	0.518	0.089	0.097	0.186	1195.18	0.0325	0.0580	1213.26
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	0.14	1.41	3.14	5.19E-03	0.093	0.020	0.113	0.020	0.019	0.039	461.17	0.0162	0.0113	464.93
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	0.22	1.24	9.13	1.55E-02	0.212	0.044	0.256	0.044	0.043	0.087	1493.86	0.0560	0.0240	1502.41
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	0.27	4.58	7.70	3.67E-02	1.341	0.082	1.423	0.272	0.079	0.350	3542.96	0.0494	0.3794	3657.25
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	0.33	3.61	9.17	1.90E-02	0.386	0.064	0.450	0.081	0.061	0.142	1830.06	0.0584	0.0664	1851.31
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	0.27	3.16	7.83	1.69E-02	0.368	0.053	0.421	0.077	0.051	0.128	1629.90	0.0499	0.0661	1650.86
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	0.52	4.99	5.38	1.42E-02	0.356	0.100	0.456	0.082	0.092	0.174	1157.30	0.0317	0.0540	1174.19
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	0.09	1.05	2.35	3.91E-03	0.093	0.011	0.104	0.019	0.011	0.029	348.23	0.0121	0.0084	351.04
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	0.20	1.18	7.84	1.40E-02	0.162	0.043	0.205	0.036	0.041	0.077	1342.63	0.0497	0.0226	1350.62
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	0.14	1.15	5.28	9.33E-03	0.089	0.020	0.110	0.020	0.020	0.040	895.05	0.0346	0.0094	898.71
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	0.75	6.16	21.15	3.89E-02	0.455	0.092	0.547	0.105	0.089	0.193	3618.64	0.1322	0.0645	3641.16
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	0.02	0.17	0.42	7.68E-04	0.020	0.002	0.022	0.004	0.002	0.007	72.03	0.0022	0.0024	72.80

Sepulveda Transit Corridor Project - ALTERNATIVE 4

Total Regional (Offsite + Onsite) Emissions per Construction Phase

						Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	0.09	1.03	2.30	3.84E-03	0.069	0.011	0.079	0.015	0.010	0.025	341.53	0.0118	0.0082	344.29
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	0.16	0.95	6.30	1.12E-02	0.130	0.034	0.164	0.029	0.033	0.062	1078.46	0.0400	0.0183	1084.92
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	0.12	0.98	4.50	7.93E-03	0.076	0.018	0.094	0.017	0.017	0.035	760.99	0.0294	0.0080	764.11
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	0.83	6.80	23.28	4.28E-02	0.499	0.106	0.605	0.115	0.102	0.217	3976.55	0.1455	0.0715	4001.49
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	0.10	1.05	2.34	3.90E-03	0.085	0.012	0.097	0.017	0.011	0.029	346.86	0.0120	0.0085	349.68
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	0.08	0.46	3.25	5.73E-03	0.082	0.016	0.098	0.017	0.016	0.033	551.84	0.0199	0.0115	555.77
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	0.18	1.82	5.08	8.83E-03	0.117	0.032	0.149	0.026	0.030	0.056	849.13	0.0325	0.0093	852.72
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	0.80	6.54	22.38	4.11E-02	0.480	0.102	0.582	0.111	0.098	0.209	3824.14	0.1399	0.0687	3848.12
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	0.02	0.16	0.41	7.32E-04	0.019	0.003	0.021	0.004	0.002	0.006	68.52	0.0021	0.0023	69.27
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	0.10	1.05	2.34	3.88E-03	0.078	0.013	0.091	0.016	0.012	0.029	345.49	0.0120	0.0085	348.34
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	0.10	0.61	4.00	7.18E-03	0.090	0.022	0.112	0.019	0.021	0.040	688.82	0.0254	0.0130	693.32
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	0.23	1.78	8.11	1.42E-02	0.136	0.034	0.170	0.031	0.033	0.064	1365.87	0.0531	0.0146	1371.56
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	0.85	6.88	23.47	4.31E-02	0.502	0.113	0.615	0.116	0.109	0.224	4002.93	0.1467	0.0727	4028.26
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	0.05	0.20	0.41	1.06E-03	0.035	0.003	0.038	0.007	0.003	0.011	99.75	0.0022	0.0073	101.97
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	0.01	0.10	0.21	3.33E-04	0.013	0.001	0.014	0.003	0.001	0.004	32.83	0.0011	0.0006	33.03
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	0.01	0.07	0.39	8.05E-04	0.024	0.002	0.026	0.004	0.002	0.007	77.11	0.0026	0.0018	77.72
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	0.00	0.01	0.03	6.64E-05	0.002	0.000	0.002	0.000	0.000	0.000	6.29	0.0002	0.0002	6.37
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	0.00	0.03	0.04	8.25E-05	0.004	0.000	0.004	0.001	0.000	0.001	7.03	0.0002	0.0001	7.07
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	0.03	0.31	0.73	2.38E-03	0.330	0.006	0.336	0.099	0.005	0.104	227.97	0.0049	0.0172	233.22
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	0.01	0.07	0.73	1.31E-03	0.140	0.002	0.143	0.067	0.002	0.070	128.99	0.0050	0.0013	129.51
MSF-Grading	3/1/2032	7/31/2032	6	132	10	0.05	0.30	2.30	4.10E-03	0.191	0.009	0.200	0.068	0.009	0.077	403.48	0.0156	0.0041	405.08
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	1.47	1.63	6.83	1.52E-02	0.497	0.039	0.536	0.106	0.037	0.143	1438.86	0.0401	0.0663	1459.63
MSF-Paving	12/1/2034	1/30/2035	6	52	10	0.08	0.14	0.30	1.13E-03	0.051	0.003	0.054	0.010	0.003	0.013	109.86	0.0016	0.0110	113.18
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	0.01	0.04	0.07	1.35E-04	0.009	0.000	0.010	0.002	0.000	0.002	10.95	0.0003	0.0004	11.06
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	0.14	1.27	3.28	5.61E-03	0.171	0.014	0.186	0.038	0.014	0.051	508.17	0.0177	0.0075	510.83
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	1.91	20.65	38.84	1.42E-01	12.211	0.507	12.718	2.165	0.478	2.643	13267.88	0.2360	1.2189	13637.01
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	1.97	20.52	61.67	1.22E-01	2.346	0.329	2.675	0.504	0.316	0.820	11447.56	0.3512	0.4841	11600.59
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	1.66	17.17	51.94	1.01E-01	1.944	0.275	2.219	0.416	0.264	0.680	9538.53	0.2958	0.3914	9662.58
					Total	25.89	271.07	646.83	1.79	58.90	5.05	63.95	11.78	4.82	16.60	169122.45	3.95	11.81	172740.30

TBM Electricity Consumption	101198
Portable Office Electricity Consumption	88.4
Alternative Total	**274,026.7**
30 - Year Amortization	**9,134.2**

Notes:

1. Global warming potentials based on IPCC AR4, consistent with CARB emission inventory methods.

Sepulveda Transit Corridor Project - ALTERNATIVE 4

Regional (Offsite + Onsite) Emissions by Construction Year

		Annual Emissions (tons per year)										Annual Emissions (metric tons)			
Year	Construction Year	ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
2027	Year 1	0.133	1.261	3.048	0.005	0.128	0.021	0.149	0.027	0.020	0.047	471.97	0.02	0.01	476.28
2028	Year 2	1.278	12.316	35.470	0.078	2.787	0.248	3.034	0.535	0.236	0.771	7333.11	0.21	0.38	7451.06
2029	Year 3	2.542	32.328	71.218	0.238	9.523	0.619	10.142	1.848	0.591	2.439	22564.66	0.42	1.99	23168.91
2030	Year 4	3.813	50.426	109.815	0.384	14.403	0.979	15.382	2.832	0.937	3.769	36722.08	0.68	3.28	37717.50
2031	Year 5	4.206	53.229	117.869	0.374	13.306	0.982	14.287	2.619	0.938	3.557	35651.21	0.73	2.89	36531.69
2032	Year 6	5.100	50.589	132.147	0.347	11.306	0.983	12.289	2.334	0.938	3.272	32907.07	0.83	2.07	33543.21
2033	Year 7	4.144	32.357	86.261	0.177	3.578	0.578	4.156	0.753	0.549	1.302	16453.55	0.53	0.55	16632.07
2034	Year 8	3.184	24.792	56.416	0.117	2.473	0.407	2.881	0.531	0.384	0.915	10541.13	0.33	0.37	10660.06
2035	Year 9	1.182	10.534	24.861	0.051	1.028	0.183	1.211	0.225	0.173	0.398	4671.77	0.14	0.18	4729.50
2036	Year 10	0.208	2.167	6.514	0.013	0.248	0.035	0.283	0.053	0.033	0.087	1209.06	0.04	0.05	1225.22
2037	Year 11	0.103	1.070	3.215	0.006	0.122	0.017	0.139	0.026	0.016	0.043	596.83	0.02	0.03	604.81
Totals		**25.89**	**271.07**	**646.83**	**1.79**	**58.90**	**5.05**	**63.95**	**11.78**	**4.82**	**16.60**	**169122.45**	**3.95**	**11.81**	**172740.30**
												TBM Electricity Consumption			101,198.0
												Portable Office Electricity Consumption			88.4
												Alternative Total			**274,026.7**
												30 - Year Amortization			**9,134.2**

Sepulveda Transit Corridor Project - ALTERNATIVE 4

Schedule/Phasing[1] | Construction Materials[1] | Worker Trips[2,3]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Workday Duration (Hours per day)[7]	Total Demo Debris (tons)	Excavation Quantity (CY)	Soil Movement Quantity (CY)	Concrete Quantity (CY)	Paving Area (SF)	Building Area (SF)	Trip Type	Workers per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	4543	-	-	-	-	-	Worker	20	40	18.5
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	-	-	-	2020	-	-	Worker	26	52	18.5
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	-	75000	75000	-	-	-	Worker	20	40	18.5
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	-	-	-	11970	-	-	Worker	20	40	18.5
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	-	-	-	-	-	-	Worker	30	60	18.5
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	-	950000	950000	170299	-	-	Worker	24	48	18.5
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	-	-	-	-	-	-	Worker	30	60	18.5
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	2/13/2030	4/13/2032	7	791	20	-	-	-	13983	-	-	Worker	8	16	18.5
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	4/14/2032	9/30/2033	7	535	20	-	-	-	10072	-	-	Worker	10	20	18.5
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	10/1/2033	5/15/2034	7	227	20	-	-	-	-	-	-	Worker	20	40	18.5
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	1537	-	-	-	-	-	Worker	20	40	18.5
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	-	-	-	2020	-	-	Worker	26	52	18.5
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	-	29000	29000	-	-	-	Worker	20	40	18.5
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	-	-	-	9000	-	-	Worker	20	40	18.5
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	-	-	-	-	-	-	Worker	30	60	18.5
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	-	1821000	1821000	323569	-	-	Worker	24	48	18.5
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	-	-	-	-	-	-	Worker	30	60	18.5
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Fill	3/1/2029	12/31/2032	7	1402	20	-	-	-	265681	-	-	Worker	8	16	18.5
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Slabs, Walkways, Plenum	9/3/2032	8/31/2034	7	728	20	-	-	-	191360	-	-	Worker	10	20	18.5
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	-	-	-	-	-	-	Worker	20	40	18.5
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	9421	-	-	-	-	-	Worker	20	40	18.5
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	-	-	-	20359	-	-	Worker	60	120	18.5
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	-	-	-	11295	-	-	Worker	40	80	18.5
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	-	-	-	49594	-	-	Worker	40	80	18.5
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	11/20/2030	1/15/2031	6	49	20	-	-	-	-	-	-	Worker	26	52	18.5
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	-	-	-	-	-	-	Worker	26	52	18.5
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	1/5/2034	2/3/2034	6	26	20	-	-	-	-	-	-	Worker	26	52	18.5
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	-	-	-	-	-	-	Worker	34	68	18.5
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	-	-	-	-	-	-	Worker	24	48	18.5
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	8/18/2032	8/15/2033	6	311	20	-	-	-	-	1246080	-	Worker	16	32	18.5
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	6056	-	-	-	-	-	Worker	20	40	18.5
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	-	-	-	-	-	-	Worker	14	28	18.5
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	1250	-	-	-	-	-	Worker	20	40	18.5
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	-	-	-	2380	-	-	Worker	26	52	18.5
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	-	120000	120000	-	-	-	Worker	20	40	18.5
Metro E Line Stn_U-Alt4-TBM Pass Through-Maintenance	6/1/2030	7/31/2030	6	52	20	-	-	-	-	-	-	Worker	6	12	18.5
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	-	-	-	40000	-	-	Worker	30	60	18.5
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	-	-	-	-	-	-	Worker	20	40	18.5
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	-	-	-	-	58043	-	Worker	14	28	18.5
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	1752	-	-	-	-	-	Worker	20	40	18.5
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	-	-	-	2940	-	-	Worker	26	52	18.5
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	-	130000	130000	-	-	-	Worker	20	40	18.5
Santa Monica Stn_U-Alt4-TBM Pass Through-Maintenance	1/1/2031	2/28/2031	6	51	20	-	-	-	-	-	-	Worker	6	12	18.5
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	-	-	-	42000	-	-	Worker	30	60	18.5
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	-	-	-	-	-	-	Worker	20	40	18.5
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	11073	-	-	-	-	-	Worker	20	40	18.5
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	-	-	-	20120	-	-	Worker	26	52	18.5
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	-	220000	220000	-	-	-	Worker	20	40	18.5
D Line Wilshire-Westwood Stn_U-Alt4-TBM Pass Through-Maintenance	8/1/2031	9/30/2031	6	52	20	-	-	-	-	-	-	Worker	6	12	18.5
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	-	-	-	56000	-	-	Worker	30	60	18.5
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	-	-	-	-	-	-	Worker	20	40	18.5

Sepulveda Transit Corridor Project - ALTERNATIVE 4

Schedule/Phasing[1]						Material/Soil Haul Trucks[5]				Precast Concrete Structures Haul Trucks[5]			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Workday Duration (Hours per day)[7]	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	Haul	4	8	32.5	Haul	-	-	16.0
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	Haul	-	-	32.5	Haul	-	-	16.0
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	Haul	98	196	32.5	Haul	-	-	16.0
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	Haul	-	-	32.5	Haul	-	-	16.0
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	Haul	4	8	32.5	Haul	-	-	16.0
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	Haul	152	304	32.5	Haul	16	32	16.0
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	Haul	4	8	32.5	Haul	-	-	16.0
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	2/13/2030	4/13/2032	7	791	20	Haul	4	8	32.5	Haul	-	-	16.0
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	4/14/2032	9/30/2033	7	535	20	Haul	-	-	32.5	Haul	-	-	16.0
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	10/1/2033	5/15/2034	7	227	20	Haul	4	8	32.5	Haul	-	-	16.0
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	Haul	2	4	32.5	Haul	-	-	6.0
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	Haul	-	-	32.5	Haul	-	-	6.0
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	Haul	40	80	32.5	Haul	-	-	6.0
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	Haul	-	-	32.5	Haul	-	-	6.0
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	Haul	4	8	32.5	Haul	-	-	6.0
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	Haul	174	348	32.5	Haul	18	36	6.0
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	Haul	4	8	32.5	Haul	-	-	6.0
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Fill	3/1/2029	12/31/2032	7	1402	20	Haul	4	8	32.5	Haul	-	-	6.0
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Slabs, Walkways, Plenum	9/3/2032	8/31/2034	7	728	20	Haul	-	-	32.5	Haul	-	-	6.0
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	Haul	4	8	32.5	Haul	-	-	6.0
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	Haul	4	8	34.3	Haul	-	-	6.0
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	Haul	-	-	34.3	Haul	-	-	6.0
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	Haul	-	-	34.3	Haul	-	-	6.0
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	Haul	-	-	34.3	Haul	2	4	6.0
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	11/20/2030	1/15/2031	6	49	20	Haul	4	8	34.3	Haul	-	-	6.0
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	Haul	4	8	34.3	Haul	2	4	6.0
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	1/5/2034	2/3/2034	6	26	20	Haul	4	8	34.3	Haul	-	-	6.0
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	Haul	4	8	34.3	Haul	-	-	6.0
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	Haul	4	8	34.3	Haul	-	-	6.0
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	8/18/2032	8/15/2033	6	311	20	Haul	8	16	34.3	Haul	-	-	6.0
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	Haul	6	12	32.5	Haul	-	-	16.0
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	Haul	4	8	32.5	Haul	-	-	16.0
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	Haul	2	4	32.5	Haul	-	-	16.0
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	Haul	-	-	32.5	Haul	-	-	16.0
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	Haul	50	100	32.5	Haul	-	-	16.0
Metro E Line Stn_U-Alt4-TBM Pass Through-Maintenance	6/1/2030	7/31/2030	6	52	20	Haul	-	-	32.5	Haul	-	-	16.0
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	Haul	8	16	32.5	Haul	-	-	16.0
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	Haul	4	8	32.5	Haul	-	-	16.0
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	Haul	4	8	32.5	Haul	-	-	16.0
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	Haul	2	4	32.5	Haul	-	-	16.0
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	Haul	-	-	32.5	Haul	-	-	16.0
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	Haul	56	112	32.5	Haul	-	-	16.0
Santa Monica Stn_U-Alt4-TBM Pass Through-Maintenance	1/1/2031	2/28/2031	6	51	20	Haul	-	-	32.5	Haul	-	-	16.0
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	Haul	10	20	32.5	Haul	-	-	16.0
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	Haul	4	8	32.5	Haul	-	-	16.0
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	Haul	4	8	32.5	Haul	-	-	16.0
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	Haul	-	-	32.5	Haul	-	-	16.0
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	Haul	90	180	32.5	Haul	-	-	16.0
D Line Wilshire-Westwood Stn_U-Alt4-TBM Pass Through-Maintenance	8/1/2031	9/30/2031	6	52	20	Haul	-	-	32.5	Haul	-	-	16.0
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	Haul	10	20	32.5	Haul	-	-	16.0
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	Haul	4	8	32.5	Haul	-	-	16.0

Sepulveda Transit Corridor Project - ALTERNATIVE 4

Schedule/Phasing[1] | Concrete Truck Deliveries[4] | Water Trucks[6]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Workday Duration (Hours per day)[7]	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	Concrete	-	-	10.2	Water	3	6	2.0
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	Concrete	2	4	10.2	Water	3	6	2.0
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	Concrete	-	-	10.2	Water	3	6	2.0
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	Concrete	26	52	10.2	Water	3	6	2.0
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	Concrete	-	-	10.2	Water	-	-	2.0
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	Concrete	-	-	10.2	Water	-	-	2.0
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	Concrete	-	-	10.2	Water	-	-	2.0
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	2/13/2030	4/13/2032	7	791	20	Concrete	18	36	10.2	Water	-	-	2.0
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	4/14/2032	9/30/2033	7	535	20	Concrete	20	40	10.2	Water	-	-	2.0
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	10/1/2033	5/15/2034	7	227	20	Concrete	-	-	10.2	Water	-	-	2.0
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	Concrete	-	-	10.2	Water	3	6	2.0
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	Concrete	2	4	10.2	Water	3	6	2.0
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	Concrete	-	-	10.2	Water	3	6	2.0
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	Concrete	18	36	10.2	Water	3	6	2.0
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	Concrete	-	-	10.2	Water	-	-	2.0
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	Concrete	-	-	10.2	Water	-	-	2.0
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	Concrete	-	-	10.2	Water	-	-	2.0
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Fill	3/1/2029	12/31/2032	7	1402	20	Concrete	20	40	10.2	Water	-	-	2.0
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Slabs, Walkways, Plenum	9/3/2032	8/31/2034	7	728	20	Concrete	28	56	10.2	Water	-	-	2.0
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	Concrete	-	-	10.2	Water	-	-	2.0
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	Concrete	-	-	10.2	Water	3	6	2.0
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	Concrete	10	20	10.2	Water	3	6	2.0
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	Concrete	2	4	10.2	Water	3	6	2.0
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	Concrete	-	-	10.2	Water	3	6	2.0
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	11/20/2030	1/15/2031	6	49	20	Concrete	-	-	10.2	Water	3	6	2.0
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	Concrete	-	-	10.2	Water	3	6	2.0
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	1/5/2034	2/3/2034	6	26	20	Concrete	-	-	10.2	Water	3	6	2.0
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	Concrete	-	-	10.2	Water	3	6	2.0
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	Concrete	-	-	10.2	Water	3	6	2.0
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	8/18/2032	8/15/2033	6	311	20	Concrete	-	-	10.2	Water	3	6	2.0
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	Concrete	-	-	10.2	Water	3	6	2.0
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	Concrete	-	-	10.2	Water	3	6	2.0
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	Concrete	-	-	10.2	Water	3	6	2.0
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	Concrete	2	4	10.2	Water	3	6	2.0
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	Concrete	-	-	10.2	Water	3	6	2.0
Metro E Line Stn_U-Alt4-TBM Pass Through-Maintenance	6/1/2030	7/31/2030	6	52	20	Concrete	-	-	10.2	Water	3	6	2.0
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	Concrete	8	16	10.2	Water	-	-	2.0
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	Concrete	-	-	10.2	Water	-	-	2.0
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	Concrete	-	-	10.2	Water	-	-	2.0
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	Concrete	-	-	10.2	Water	3	6	2.0
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	Concrete	2	4	10.2	Water	3	6	2.0
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	Concrete	-	-	10.2	Water	3	6	2.0
Santa Monica Stn_U-Alt4-TBM Pass Through-Maintenance	1/1/2031	2/28/2031	6	51	20	Concrete	-	-	10.2	Water	3	6	2.0
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	Concrete	8	16	10.2	Water	3	6	2.0
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	Concrete	-	-	10.2	Water	3	6	2.0
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	Concrete	-	-	10.2	Water	3	6	2.0
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	Concrete	8	16	10.2	Water	3	6	2.0
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	Concrete	-	-	10.2	Water	3	6	2.0
D Line Wilshire-Westwood Stn_U-Alt4-TBM Pass Through-Maintenance	8/1/2031	9/30/2031	6	52	20	Concrete	-	-	10.2	Water	3	6	2.0
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	Concrete	12	24	10.2	Water	3	6	2.0
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	Concrete	-	-	10.2	Water	3	6	2.0

Sepulveda Transit Corridor Project - ALTERNATIVE 4

Schedule/Phasing[1] | Construction Materials[1] | Worker Trips[2,3]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Workday Duration (Hours per day)[7]	Total Demo Debris (tons)	Excavation Quantity (CY)	Soil Movement Quantity (CY)	Concrete Quantity (CY)	Paving Area (SF)	Building Area (SF)	Trip Type	Workers per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	756	-	-	-	-	-	Worker	20	40	18.5
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	-	-	-	17530	-	-	Worker	26	52	18.5
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	-	185000	185000	-	-	-	Worker	20	40	18.5
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	-	-	-	30121	-	-	Worker	30	60	18.5
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	-	-	-	25879	-	-	Worker	30	60	18.5
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	-	-	-	-	-	-	Worker	20	40	18.5
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	3788	-	-	-	-	-	Worker	20	40	18.5
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	-	287	287	1900	-	-	Worker	30	60	18.5
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	-	-	-	403	-	-	Worker	36	72	18.5
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	-	-	-	2091	-	-	Worker	46	92	18.5
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	-	-	-	-	38920	-	Worker	14	28	18.5
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	431	-	-	-	-	-	Worker	20	40	18.5
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	-	713	713	2700	-	-	Worker	30	60	18.5
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	-	-	-	1456	-	-	Worker	36	72	18.5
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	-	-	-	2091	-	-	Worker	46	92	18.5
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	2649	-	-	-	-	-	Worker	20	40	18.5
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	-	537	537	2800	-	-	Worker	26	52	18.5
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	-	-	-	1456	-	-	Worker	30	60	18.5
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	-	-	-	2091	-	-	Worker	46	92	18.5
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	-	-	-	-	41554	-	Worker	14	28	18.5
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	1732	-	-	-	-	-	Worker	20	40	18.5
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	-	565	565	2800	-	-	Worker	30	60	18.5
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	-	-	-	672	-	-	Worker	36	72	18.5
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	-	-	-	2987	-	-	Worker	46	92	18.5
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	-	-	-	-	185128	-	Worker	14	28	18.5
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	-	158	158	-	-	-	Worker	8	16	18.5
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	-	-	-	234	-	-	Worker	8	16	18.5
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	-	-	-	-	-	-	Worker	10	20	18.5
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	-	-	-	-	-	-	Worker	8	16	18.5
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	19035	-	-	-	-	-	Worker	16	32	18.5
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	-	-	-	-	-	-	Worker	18	36	18.5
MSF-Grading	3/1/2032	7/31/2032	6	132	10	-	-	-	-	-	-	Worker	20	40	18.5
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	-	-	-	6215	-	268800	Worker	24	48	18.5
MSF-Paving	12/1/2034	1/30/2035	6	52	10	-	-	-	-	385070	-	Worker	16	32	18.5
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	-	-	-	-	-	-	Worker	4	8	18.5
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	-	-	-	-	-	-	Worker	16	32	18.5
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	-	-	-	767538	-	-	Worker	38	76	18.5
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	-	-	-	-	-	-	Worker	24	48	18.5
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	-	-	-	-	-	-	Worker	24	48	18.5

Notes:

1. Phasing and material data provided by STCP team and based on structural designs.
2. Number of workers evaluated using CalEEMod methodology of 1.25 workers piece of equipment.
3. Worker trip length based on CalEEMod default value.
4. Concrete truck trip length based on CalEEMod default value for vendors.
5. Haul trips lengths based on project-specific data.
6. It was assumed water trucks would make 3 passes per day for ground/soil disturbing activities.
7. Daily workday hours account for safety meetings and lunch breaks.

Sepulveda Transit Corridor Project - ALTERNATIVE 4

Schedule/Phasing[1]						Material/Soil Haul Trucks[5]				Precast Concrete Structures Haul Trucks[5]			
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Workday Duration (Hours per day)[7]**	**Trip Type**	**Round Trips per Day**	**Total One-Way Trips per Day**	**One-Way Trip Length (mi)**	**Trip Type**	**Round Trips per Day**	**Total One-Way Trips per Day**	**One-Way Trip Length (mi)**
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	Haul	2	4	32.5	Haul	-	-	16.0
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	Haul	-	-	32.5	Haul	-	-	16.0
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	Haul	58	116	32.5	Haul	-	-	16.0
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	Haul	6	12	32.5	Haul	-	-	16.0
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	Haul	8	16	32.5	Haul	-	-	16.0
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	Haul	4	8	32.5	Haul	-	-	16.0
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	Haul	2	4	34.3	Haul	-	-	6.0
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	Haul	2	4	34.3	Haul	-	-	6.0
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	Haul	-	-	34.3	Haul	2	4	6.0
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	Haul	4	8	34.3	Haul	-	-	6.0
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	Haul	2	4	34.3	Haul	-	-	6.0
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	Haul	2	4	34.3	Haul	-	-	6.0
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	Haul	2	4	34.3	Haul	-	-	6.0
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	Haul	-	-	34.3	Haul	2	4	6.0
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	Haul	4	8	34.3	Haul	-	-	6.0
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	Haul	2	4	34.3	Haul	-	-	2.0
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	Haul	2	4	34.3	Haul	-	-	2.0
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	Haul	-	-	34.3	Haul	2	4	2.0
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	Haul	4	8	34.3	Haul	-	-	2.0
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	Haul	2	4	34.3	Haul	-	-	2.0
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	Haul	2	4	34.3	Haul	-	-	6.0
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	Haul	2	4	34.3	Haul	-	-	6.0
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	Haul	-	-	34.3	Haul	2	4	6.0
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	Haul	4	8	34.3	Haul	-	-	6.0
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	Haul	8	16	34.3	Haul	-	-	6.0
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	Haul	-	-	34.3	Haul	-	-	6.0
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	Haul	-	-	34.3	Haul	-	-	6.0
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	Haul	2	4	34.3	Haul	-	-	6.0
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	Haul	-	-	34.3	Haul	-	-	6.0
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	Haul	14	28	32.5	Haul	-	-	16.0
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	Haul	-	-	32.5	Haul	-	-	16.0
MSF-Grading	3/1/2032	7/31/2032	6	132	10	Haul	-	-	32.5	Haul	-	-	16.0
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	Haul	4	8	32.5	Haul	-	-	16.0
MSF-Paving	12/1/2034	1/30/2035	6	52	10	Haul	14	28	32.5	Haul	-	-	16.0
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	Haul	-	-	32.5	Haul	-	-	16.0
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	Haul	-	-	32.5	Haul	-	-	16.0
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	Haul	52	104	32.5	Haul	-	-	16.0
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	Haul	8	16	34.3	Haul	-	-	16.0
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	Haul	8	16	32.5	Haul	-	-	16.0

Notes:

1. Phasing and material data provided by STCP team and based on structural designs.
2. Number of workers evaluated using CalEEMod methodology of 1.25 workers piece of equipment.
3. Worker trip length based on CalEEMod default value.
4. Concrete truck trip length based on CalEEMod default value for vendors.
5. Haul trips lengths based on project-specific data.
6. It was assumed water trucks would make 3 passes per day for ground/soil disturbing activities.
7. Daily workday hours account for safety meetings and lunch breaks.

Sepulveda Transit Corridor Project - ALTERNATIVE 4

Schedule/Phasing[1]						Concrete Truck Deliveries[4]				Water Trucks[6]			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Workday Duration (Hours per day)[7]	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	Concrete	-	-	10.2	Water	3	6	2.0
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	Concrete	6	12	10.2	Water	3	6	2.0
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	Concrete	-	-	10.2	Water	3	6	2.0
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	Concrete	8	16	10.2	Water	-	-	2.0
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	Concrete	8	16	10.2	Water	-	-	2.0
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	Concrete	-	-	10.2	Water	-	-	2.0
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	Concrete	-	-	10.2	Water	3	6	2.0
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	Concrete	2	4	10.2	Water	3	6	2.0
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	Concrete	-	-	10.2	Water	3	6	2.0
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	Concrete	-	-	10.2	Water	3	6	2.0
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	Concrete	-	-	10.2	Water	3	6	2.0
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	Concrete	-	-	10.2	Water	3	6	2.0
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	Concrete	2	4	10.2	Water	3	6	2.0
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	Concrete	-	-	10.2	Water	3	6	2.0
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	Concrete	-	-	10.2	Water	3	6	2.0
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	Concrete	-	-	10.2	Water	3	6	2.0
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	Concrete	4	8	10.2	Water	3	6	2.0
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	Concrete	-	-	10.2	Water	3	6	2.0
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	Concrete	-	-	10.2	Water	3	6	2.0
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	Concrete	-	-	10.2	Water	3	6	2.0
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	Concrete	-	-	10.2	Water	3	6	2.0
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	Concrete	4	8	10.2	Water	3	6	2.0
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	Concrete	-	-	10.2	Water	3	6	2.0
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	Concrete	-	-	10.2	Water	3	6	2.0
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	Concrete	-	-	10.2	Water	3	6	2.0
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	Concrete	-	-	10.2	Water	3	6	2.0
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	Concrete	2	4	10.2	Water	3	6	2.0
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	Concrete	-	-	10.2	Water	3	6	2.0
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	Concrete	-	-	10.2	Water	3	6	2.0
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	Concrete	-	-	10.2	Water	3	6	2.0
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	Concrete	-	-	10.2	Water	3	6	2.0
MSF-Grading	3/1/2032	7/31/2032	6	132	10	Concrete	-	-	10.2	Water	3	6	2.0
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	Concrete	2	4	10.2	Water	3	6	2.0
MSF-Paving	12/1/2034	1/30/2035	6	52	10	Concrete	-	-	10.2	Water	3	6	2.0
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	Concrete	-	-	10.2	Water	3	6	2.0
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	Concrete	-	-	10.2	Water	3	6	2.0
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	Concrete	-	-	10.2	Water	3	6	2.0
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	Concrete	-	-	10.2	Water	3	6	2.0
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	Concrete	-	-	10.2	Water	3	6	2.0

Notes:

1. Phasing and material data provided by STCP team and based on structural designs.
2. Number of workers evaluated using CalEEMod methodology of 1.25 workers piece of equipment.
3. Worker trip length based on CalEEMod default value.
4. Concrete truck trip length based on CalEEMod default value for vendors.
5. Haul trips lengths based on project-specific data.
6. It was assumed water trucks would make 3 passes per day for ground/soil disturbing activities.
7. Daily workday hours account for safety meetings and lunch breaks.

Sepulveda Transit Corridor Project - ALTERNATIVE 4

Off-Road Equipment Fleet

Phase Name (if applicable)	Equipment Type (Cranes, Bulldozer, etc.)	Quantity	Daily Usage (hours)	Fuel Type
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	Air Compressors	1	7.5	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	Concrete/Industrial Saws	2	7.5	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	Rough Terrain Forklifts	1	7.5	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	Skid Steer Loaders	2	7.5	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	Tractors/Loaders/Backhoes	2	7.5	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	Bore/Drill Rigs	2	7.5	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	Cranes	2	7.5	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	Pumps	2	7.5	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	Rough Terrain Forklifts	2	7.5	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	Tractors/Loaders/Backhoes	2	7.5	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	Cranes	2	7.5	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	Excavators	2	7.5	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	Rough Terrain Forklifts	2	7.5	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	Tractors/Loaders/Backhoes	2	7.5	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	Cranes	2	7.5	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	Generator Sets	2	7.5	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	Pumps	2	7.5	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	Rough Terrain Forklifts	2	7.5	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	Cranes	4	15	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	Generator Sets	2	15	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	Pumps	2	15	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	Tractors/Loaders/Backhoes	2	15	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	Welders	2	15	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	Aerial Lifts	2	15	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	Cranes	2	15	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	Rough Terrain Forklifts	2	15	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	Tunnel Boring Machine (TBM)	1	15	Electric
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	Tractors/Loaders/Backhoes	2	15	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	Cranes	4	15	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	Generator Sets	2	15	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	Pumps	2	15	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	Tractors/Loaders/Backhoes	2	15	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	Welders	2	15	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	Aerial Lifts	1	15	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	Air Compressors	1	15	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	Rollers	1	15	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	Aerial Lifts	2	15	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	Cement and Mortar Mixers	2	15	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	Aerial Lifts	1	15	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	Air Compressors	2	15	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	Generator Sets	2	15	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	Welders	3	15	Diesel
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	Air Compressors	1	7.5	Diesel
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	Concrete/Industrial Saws	2	7.5	Diesel
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	Rough Terrain Forklifts	1	7.5	Diesel
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	Skid Steer Loaders	2	7.5	Diesel
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	Tractors/Loaders/Backhoes	2	7.5	Diesel
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	Bore/Drill Rigs	2	7.5	Diesel
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	Cranes	2	7.5	Diesel
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	Pumps	2	7.5	Diesel
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	Rough Terrain Forklifts	2	7.5	Diesel
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	Tractors/Loaders/Backhoes	2	7.5	Diesel
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	Cranes	2	7.5	Diesel
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	Excavators	2	7.5	Diesel
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	Rough Terrain Forklifts	2	7.5	Diesel
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	Tractors/Loaders/Backhoes	2	7.5	Diesel
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	Cranes	2	7.5	Diesel
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	Generator Sets	2	7.5	Diesel
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	Pumps	2	7.5	Diesel
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	Rough Terrain Forklifts	2	7.5	Diesel
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	Cranes	4	15	Diesel
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	Generator Sets	2	15	Diesel
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	Pumps	2	15	Diesel
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	Tractors/Loaders/Backhoes	2	15	Diesel
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	Welders	2	15	Diesel
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	Aerial Lifts	2	15	Diesel
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	Cranes	2	15	Diesel
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	Rough Terrain Forklifts	2	15	Diesel
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	Tunnel Boring Machine (TBM)	1	15	Electric
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	Tractors/Loaders/Backhoes	2	15	Diesel

Sepulveda Transit Corridor Project - ALTERNATIVE 4

Off-Road Equipment Fleet

Phase Name (if applicable)	Equipment Type (Cranes, Bulldozer, etc.)	Quantity	Daily Usage (hours)	Fuel Type
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	Cranes	4	15	Diesel
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	Generator Sets	2	15	Diesel
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	Pumps	2	15	Diesel
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	Tractors/Loaders/Backhoes	2	15	Diesel
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	Welders	2	15	Diesel
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Fill	Aerial Lifts	1	15	Diesel
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Fill	Air Compressors	1	15	Diesel
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Fill	Rollers	1	15	Diesel
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Slabs, Walkways, Plenum	Aerial Lifts	2	15	Diesel
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Slabs, Walkways, Plenum	Cement and Mortar Mixers	2	15	Diesel
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	Aerial Lifts	2	15	Diesel
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	Air Compressors	2	15	Diesel
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	Generator Sets	2	15	Diesel
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	Rough Terrain Forklifts	2	15	Diesel
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	Air Compressors	1	15	Diesel
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	Concrete/Industrial Saws	2	15	Diesel
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	Rough Terrain Forklifts	1	15	Diesel
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	Skid Steer Loaders	2	15	Diesel
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	Tractors/Loaders/Backhoes	2	15	Diesel
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	Aerial Lifts	4	15	Diesel
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	Bore/Drill Rigs	4	15	Diesel
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	Cranes	4	15	Diesel
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	Pumps	4	15	Diesel
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	Rollers	4	15	Diesel
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	Rough Terrain Forklifts	4	15	Diesel
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	Aerial Lifts	4	15	Diesel
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	Cranes	4	15	Diesel
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	Pumps	4	15	Diesel
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	Rough Terrain Forklifts	4	15	Diesel
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	Aerial Lifts	4	15	Diesel
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	Cranes	4	15	Diesel
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	Pumps	4	15	Diesel
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	Rough Terrain Forklifts	4	15	Diesel
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	Aerial Lifts	4	15	Diesel
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	Cranes	4	15	Diesel
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	Rough Terrain Forklifts	2	15	Diesel
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	Aerial Lifts	2	15	Diesel
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	Cranes	4	15	Diesel
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	Excavators	2	15	Diesel
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	Other Construction Equipment	2	15	Diesel
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	Aerial Lifts	4	15	Diesel
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	Cranes	4	15	Diesel
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	Rough Terrain Forklifts	2	15	Diesel
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	Aerial Lifts	2	15	Diesel
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	Air Compressors	4	15	Diesel
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	Generator Sets	2	15	Diesel
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	Skid Steer Loaders	2	15	Diesel
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	Welders	3	15	Diesel
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	Air Compressors	2	15	Diesel
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	Generator Sets	2	15	Diesel
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	Cranes	2	15	Diesel
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	Welders	3	15	Diesel
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	Pavers	2	15	Diesel
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	Paving Equipment	2	15	Diesel
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	Rollers	2	15	Diesel
VTA Station Staging Area-Demolition/Site Preparation	Air Compressors	1	7.5	Diesel
VTA Station Staging Area-Demolition/Site Preparation	Concrete/Industrial Saws	2	7.5	Diesel
VTA Station Staging Area-Demolition/Site Preparation	Rough Terrain Forklifts	1	7.5	Diesel
VTA Station Staging Area-Demolition/Site Preparation	Skid Steer Loaders	2	7.5	Diesel
VTA Station Staging Area-Demolition/Site Preparation	Tractors/Loaders/Backhoes	2	7.5	Diesel
VTA Station Staging Area-Laydown Activity	Cranes	1	7.5	Diesel
VTA Station Staging Area-Laydown Activity	Rough Terrain Forklifts	1	7.5	Diesel
VTA Station Staging Area-Laydown Activity	Skid Steer Loaders	1	7.5	Diesel
VTA Station Staging Area-Laydown Activity	Tractors/Loaders/Backhoes	1	7.5	Diesel
VTA Station Staging Area-Laydown Activity	Welders	1	7.5	Diesel
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	Air Compressors	1	15	Diesel
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	Concrete/Industrial Saws	2	15	Diesel
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	Rough Terrain Forklifts	1	15	Diesel
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	Skid Steer Loaders	2	15	Diesel
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	Tractors/Loaders/Backhoes	2	15	Diesel

Sepulveda Transit Corridor Project - ALTERNATIVE 4

Off-Road Equipment Fleet

Phase Name (if applicable)	Equipment Type (Cranes, Bulldozer, etc.)	Quantity	Daily Usage (hours)	Fuel Type
Metro E Line Stn_U-Alt4-Support of Excavation	Bore/Drill Rigs	2	15	Diesel
Metro E Line Stn_U-Alt4-Support of Excavation	Cranes	2	15	Diesel
Metro E Line Stn_U-Alt4-Support of Excavation	Pumps	2	15	Diesel
Metro E Line Stn_U-Alt4-Support of Excavation	Rough Terrain Forklifts	2	15	Diesel
Metro E Line Stn_U-Alt4-Support of Excavation	Tractors/Loaders/Backhoes	2	15	Diesel
Metro E Line Stn_U-Alt4-Box Excavation	Aerial Lifts	2	15	Diesel
Metro E Line Stn_U-Alt4-Box Excavation	Cranes	2	15	Diesel
Metro E Line Stn_U-Alt4-Box Excavation	Excavators	2	15	Diesel
Metro E Line Stn_U-Alt4-Box Excavation	Tractors/Loaders/Backhoes	2	15	Diesel
Metro E Line Stn_U-Alt4-TBM Pass Through-Maintenance	Cranes	1	15	Diesel
Metro E Line Stn_U-Alt4-TBM Pass Through-Maintenance	Generator Sets	1	15	Diesel
Metro E Line Stn_U-Alt4-Station Structural Concrete	Aerial Lifts	2	15	Diesel
Metro E Line Stn_U-Alt4-Station Structural Concrete	Cranes	2	15	Diesel
Metro E Line Stn_U-Alt4-Station Structural Concrete	Excavators	2	15	Diesel
Metro E Line Stn_U-Alt4-Station Structural Concrete	Pumps	2	15	Diesel
Metro E Line Stn_U-Alt4-Station Structural Concrete	Skid Steer Loaders	2	15	Diesel
Metro E Line Stn_U-Alt4-Station Structural Concrete	Tractors/Loaders/Backhoes	2	15	Diesel
Metro E Line Stn_U-Alt4-Fit Out and Completion	Aerial Lifts	2	15	Diesel
Metro E Line Stn_U-Alt4-Fit Out and Completion	Cement and Mortar Mixers	1	15	Diesel
Metro E Line Stn_U-Alt4-Fit Out and Completion	Generator Sets	2	15	Diesel
Metro E Line Stn_U-Alt4-Fit Out and Completion	Pumps	1	15	Diesel
Metro E Line Stn_U-Alt4-Fit Out and Completion	Welders	2	15	Diesel
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	Aerial Lifts	1	15	Diesel
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	Air Compressors	1	15	Diesel
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	Pavers	1	15	Diesel
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	Paving Equipment	1	15	Diesel
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	Rollers	1	15	Diesel
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	Air Compressors	1	15	Diesel
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	Concrete/Industrial Saws	2	15	Diesel
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	Rough Terrain Forklifts	1	15	Diesel
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	Skid Steer Loaders	2	15	Diesel
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	Tractors/Loaders/Backhoes	2	15	Diesel
Santa Monica Stn_U-Alt4-Support of Excavation	Bore/Drill Rigs	2	15	Diesel
Santa Monica Stn_U-Alt4-Support of Excavation	Cranes	2	15	Diesel
Santa Monica Stn_U-Alt4-Support of Excavation	Pumps	2	15	Diesel
Santa Monica Stn_U-Alt4-Support of Excavation	Rough Terrain Forklifts	2	15	Diesel
Santa Monica Stn_U-Alt4-Support of Excavation	Tractors/Loaders/Backhoes	2	15	Diesel
Santa Monica Stn_U-Alt4-Box Excavation	Aerial Lifts	2	15	Diesel
Santa Monica Stn_U-Alt4-Box Excavation	Cranes	2	15	Diesel
Santa Monica Stn_U-Alt4-Box Excavation	Excavators	2	15	Diesel
Santa Monica Stn_U-Alt4-Box Excavation	Tractors/Loaders/Backhoes	2	15	Diesel
Santa Monica Stn_U-Alt4-TBM Pass Through-Maintenance	Cranes	1	15	Diesel
Santa Monica Stn_U-Alt4-TBM Pass Through-Maintenance	Generator Sets	1	15	Diesel
Santa Monica Stn_U-Alt4-Station Structural Concrete	Aerial Lifts	2	15	Diesel
Santa Monica Stn_U-Alt4-Station Structural Concrete	Cranes	2	15	Diesel
Santa Monica Stn_U-Alt4-Station Structural Concrete	Excavators	2	15	Diesel
Santa Monica Stn_U-Alt4-Station Structural Concrete	Pumps	2	15	Diesel
Santa Monica Stn_U-Alt4-Station Structural Concrete	Skid Steer Loaders	2	15	Diesel
Santa Monica Stn_U-Alt4-Station Structural Concrete	Tractors/Loaders/Backhoes	2	15	Diesel
Santa Monica Stn_U-Alt4-Fit Out and Completion	Aerial Lifts	2	15	Diesel
Santa Monica Stn_U-Alt4-Fit Out and Completion	Cement and Mortar Mixers	1	15	Diesel
Santa Monica Stn_U-Alt4-Fit Out and Completion	Generator Sets	2	15	Diesel
Santa Monica Stn_U-Alt4-Fit Out and Completion	Pumps	1	15	Diesel
Santa Monica Stn_U-Alt4-Fit Out and Completion	Welders	2	15	Diesel
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	Air Compressors	1	15	Diesel
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	Concrete/Industrial Saws	2	15	Diesel
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	Rough Terrain Forklifts	1	15	Diesel
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	Skid Steer Loaders	2	15	Diesel
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	Tractors/Loaders/Backhoes	2	15	Diesel
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	Bore/Drill Rigs	2	15	Diesel
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	Cranes	2	15	Diesel
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	Pumps	2	15	Diesel
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	Rough Terrain Forklifts	2	15	Diesel
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	Tractors/Loaders/Backhoes	2	15	Diesel
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	Aerial Lifts	2	15	Diesel
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	Cranes	2	15	Diesel
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	Excavators	2	15	Diesel
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	Tractors/Loaders/Backhoes	2	15	Diesel
D Line Wilshire-Westwood Stn_U-Alt4-TBM Pass Through-Maintenance	Cranes	1	15	Diesel
D Line Wilshire-Westwood Stn_U-Alt4-TBM Pass Through-Maintenance	Generator Sets	1	15	Diesel

Sepulveda Transit Corridor Project - ALTERNATIVE 4

Off-Road Equipment Fleet

Phase Name (if applicable)	Equipment Type (Cranes, Bulldozer, etc.)	Quantity	Daily Usage (hours)	Fuel Type
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	Aerial Lifts	2	15	Diesel
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	Cranes	2	15	Diesel
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	Excavators	2	15	Diesel
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	Pumps	2	15	Diesel
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	Skid Steer Loaders	2	15	Diesel
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	Tractors/Loaders/Backhoes	2	15	Diesel
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	Aerial Lifts	2	15	Diesel
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	Cement and Mortar Mixers	1	15	Diesel
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	Generator Sets	2	15	Diesel
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	Pumps	1	15	Diesel
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	Welders	2	15	Diesel
UCLA Stn_U-Alt4-Demolition/Site Preparation	Air Compressors	1	15	Diesel
UCLA Stn_U-Alt4-Demolition/Site Preparation	Concrete/Industrial Saws	2	15	Diesel
UCLA Stn_U-Alt4-Demolition/Site Preparation	Rough Terrain Forklifts	1	15	Diesel
UCLA Stn_U-Alt4-Demolition/Site Preparation	Skid Steer Loaders	2	15	Diesel
UCLA Stn_U-Alt4-Demolition/Site Preparation	Tractors/Loaders/Backhoes	2	15	Diesel
UCLA Stn_U-Alt4-Support of Excavation	Bore/Drill Rigs	2	15	Diesel
UCLA Stn_U-Alt4-Support of Excavation	Cranes	2	15	Diesel
UCLA Stn_U-Alt4-Support of Excavation	Pumps	2	15	Diesel
UCLA Stn_U-Alt4-Support of Excavation	Rough Terrain Forklifts	2	15	Diesel
UCLA Stn_U-Alt4-Support of Excavation	Tractors/Loaders/Backhoes	2	15	Diesel
UCLA Stn_U-Alt4-Box Excavation	Aerial Lifts	2	15	Diesel
UCLA Stn_U-Alt4-Box Excavation	Cranes	2	15	Diesel
UCLA Stn_U-Alt4-Box Excavation	Excavators	2	15	Diesel
UCLA Stn_U-Alt4-Box Excavation	Tractors/Loaders/Backhoes	2	15	Diesel
UCLA Stn_U-Alt4-Structural Concrete Part 1	Aerial Lifts	2	15	Diesel
UCLA Stn_U-Alt4-Structural Concrete Part 1	Cranes	2	15	Diesel
UCLA Stn_U-Alt4-Structural Concrete Part 1	Excavators	2	15	Diesel
UCLA Stn_U-Alt4-Structural Concrete Part 1	Pumps	2	15	Diesel
UCLA Stn_U-Alt4-Structural Concrete Part 1	Skid Steer Loaders	2	15	Diesel
UCLA Stn_U-Alt4-Structural Concrete Part 1	Tractors/Loaders/Backhoes	2	15	Diesel
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	Aerial Lifts	2	15	Diesel
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	Cranes	2	15	Diesel
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	Excavators	2	15	Diesel
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	Pumps	2	15	Diesel
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	Skid Steer Loaders	2	15	Diesel
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	Tractors/Loaders/Backhoes	2	15	Diesel
UCLA Stn_U-Alt4-Fit Out and Completion	Aerial Lifts	2	15	Diesel
UCLA Stn_U-Alt4-Fit Out and Completion	Cement and Mortar Mixers	1	15	Diesel
UCLA Stn_U-Alt4-Fit Out and Completion	Generator Sets	2	15	Diesel
UCLA Stn_U-Alt4-Fit Out and Completion	Pumps	1	15	Diesel
UCLA Stn_U-Alt4-Fit Out and Completion	Welders	2	15	Diesel
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	Air Compressors	1	15	Diesel
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	Concrete/Industrial Saws	2	15	Diesel
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	Rough Terrain Forklifts	1	15	Diesel
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	Skid Steer Loaders	2	15	Diesel
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	Tractors/Loaders/Backhoes	2	15	Diesel
Ventura Blvd Stn_A-Alt4-Foundations and Columns	Bore/Drill Rigs	2	15	Diesel
Ventura Blvd Stn_A-Alt4-Foundations and Columns	Cranes	3	15	Diesel
Ventura Blvd Stn_A-Alt4-Foundations and Columns	Pumps	3	15	Diesel
Ventura Blvd Stn_A-Alt4-Foundations and Columns	Rough Terrain Forklifts	2	15	Diesel
Ventura Blvd Stn_A-Alt4-Foundations and Columns	Tractors/Loaders/Backhoes	2	15	Diesel
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	Aerial Lifts	4	15	Diesel
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	Cranes	4	15	Diesel
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	Other Construction Equipment	2	15	Diesel
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	Rough Terrain Forklifts	2	15	Diesel
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	Welders	2	15	Diesel
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	Aerial Lifts	4	15	Diesel
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	Air Compressors	4	15	Diesel
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	Cranes	4	15	Diesel
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	Other Construction Equipment	2	15	Diesel
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	Rough Terrain Forklifts	2	15	Diesel
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	Welders	2	15	Diesel
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	Aerial Lifts	1	15	Diesel
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	Air Compressors	1	15	Diesel
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	Pavers	1	15	Diesel
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	Paving Equipment	1	15	Diesel
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	Rollers	1	15	Diesel
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	Air Compressors	1	15	Diesel
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	Concrete/Industrial Saws	2	15	Diesel
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	Rough Terrain Forklifts	1	15	Diesel
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	Skid Steer Loaders	2	15	Diesel
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	Tractors/Loaders/Backhoes	2	15	Diesel

Sepulveda Transit Corridor Project - ALTERNATIVE 4

Off-Road Equipment Fleet

Phase Name (if applicable)	Equipment Type (Cranes, Bulldozer, etc.)	Quantity	Daily Usage (hours)	Fuel Type
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	Bore/Drill Rigs	2	15	Diesel
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	Cranes	3	15	Diesel
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	Pumps	3	15	Diesel
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	Rough Terrain Forklifts	2	15	Diesel
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	Tractors/Loaders/Backhoes	2	15	Diesel
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	Aerial Lifts	4	15	Diesel
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	Cranes	4	15	Diesel
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	Other Construction Equipment	2	15	Diesel
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	Rough Terrain Forklifts	2	15	Diesel
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	Welders	2	15	Diesel
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	Aerial Lifts	4	15	Diesel
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	Air Compressors	4	15	Diesel
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	Cranes	4	15	Diesel
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	Other Construction Equipment	2	15	Diesel
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	Rough Terrain Forklifts	2	15	Diesel
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	Welders	2	15	Diesel
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	Air Compressors	1	15	Diesel
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	Concrete/Industrial Saws	2	15	Diesel
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	Rough Terrain Forklifts	1	15	Diesel
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	Skid Steer Loaders	2	15	Diesel
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	Tractors/Loaders/Backhoes	2	15	Diesel
Sherman Way Stn_A-Alt4-Foundations and Columns	Bore/Drill Rigs	2	15	Diesel
Sherman Way Stn_A-Alt4-Foundations and Columns	Cranes	2	15	Diesel
Sherman Way Stn_A-Alt4-Foundations and Columns	Pumps	2	15	Diesel
Sherman Way Stn_A-Alt4-Foundations and Columns	Rough Terrain Forklifts	2	15	Diesel
Sherman Way Stn_A-Alt4-Foundations and Columns	Tractors/Loaders/Backhoes	2	15	Diesel
Sherman Way Stn_A-Alt4-Bent Cap Installation	Aerial Lifts	2	15	Diesel
Sherman Way Stn_A-Alt4-Bent Cap Installation	Cranes	2	15	Diesel
Sherman Way Stn_A-Alt4-Bent Cap Installation	Excavators	2	15	Diesel
Sherman Way Stn_A-Alt4-Bent Cap Installation	Pumps	2	15	Diesel
Sherman Way Stn_A-Alt4-Bent Cap Installation	Skid Steer Loaders	2	15	Diesel
Sherman Way Stn_A-Alt4-Bent Cap Installation	Tractors/Loaders/Backhoes	2	15	Diesel
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	Aerial Lifts	4	15	Diesel
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	Air Compressors	4	15	Diesel
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	Cranes	4	15	Diesel
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	Other Construction Equipment	2	15	Diesel
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	Rough Terrain Forklifts	2	15	Diesel
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	Welders	2	15	Diesel
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	Aerial Lifts	1	15	Diesel
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	Air Compressors	1	15	Diesel
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	Pavers	1	15	Diesel
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	Paving Equipment	1	15	Diesel
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	Rollers	1	15	Diesel
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	Air Compressors	1	15	Diesel
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	Concrete/Industrial Saws	2	15	Diesel
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	Rough Terrain Forklifts	1	15	Diesel
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	Skid Steer Loaders	2	15	Diesel
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	Tractors/Loaders/Backhoes	2	15	Diesel
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	Bore/Drill Rigs	2	15	Diesel
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	Cranes	3	15	Diesel
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	Pumps	3	15	Diesel
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	Rough Terrain Forklifts	2	15	Diesel
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	Tractors/Loaders/Backhoes	2	15	Diesel
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	Aerial Lifts	4	15	Diesel
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	Cranes	4	15	Diesel
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	Other Construction Equipment	2	15	Diesel
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	Rough Terrain Forklifts	2	15	Diesel
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	Welders	2	15	Diesel
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	Aerial Lifts	4	15	Diesel
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	Air Compressors	4	15	Diesel
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	Cranes	4	15	Diesel
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	Other Construction Equipment	2	15	Diesel
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	Rough Terrain Forklifts	2	15	Diesel
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	Welders	2	15	Diesel
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	Aerial Lifts	1	15	Diesel
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	Air Compressors	1	15	Diesel
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	Pavers	1	15	Diesel
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	Paving Equipment	1	15	Diesel
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	Rollers	1	15	Diesel
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	Trenchers	1	7.5	Diesel
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	Skid Steer Loaders	1	7.5	Diesel
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	Tractors/Loaders/Backhoes	1	7.5	Diesel

Sepulveda Transit Corridor Project - ALTERNATIVE 4

Off-Road Equipment Fleet

Phase Name (if applicable)	Equipment Type (Cranes, Bulldozer, etc.)	Quantity	Daily Usage (hours)	Fuel Type
TPSS 11-Sta 1260-Grounding-Foundations	Cranes	1	7.5	Diesel
TPSS 11-Sta 1260-Grounding-Foundations	Pumps	1	7.5	Diesel
TPSS 11-Sta 1260-Grounding-Foundations	Tractors/Loaders/Backhoes	1	7.5	Diesel
TPSS 11-Sta 1260-TPSS Installation	Aerial Lifts	1	7.5	Diesel
TPSS 11-Sta 1260-TPSS Installation	Cranes	1	7.5	Diesel
TPSS 11-Sta 1260-TPSS Installation	Rough Terrain Forklifts	1	7.5	Diesel
TPSS 11-Sta 1260-TPSS Installation	Welders	1	7.5	Diesel
TPSS 11-Sta 1260-Site Restoration	Air Compressors	1	7.5	Diesel
TPSS 11-Sta 1260-Site Restoration	Generator Sets	1	7.5	Diesel
TPSS 11-Sta 1260-Site Restoration	Skid Steer Loaders	1	7.5	Diesel
MSF-Demolition	Concrete/Industrial Saws	1	7.5	Diesel
MSF-Demolition	Excavators	3	7.5	Diesel
MSF-Demolition	Rubber Tired Dozers	2	7.5	Diesel
MSF-Site Preparation	Rubber Tired Dozers	3	7.5	Diesel
MSF-Site Preparation	Tractors/Loaders/Backhoes	4	7.5	Diesel
MSF-Grading	Excavators	2	7.5	Diesel
MSF-Grading	Graders	1	7.5	Diesel
MSF-Grading	Rubber Tired Dozers	1	7.5	Diesel
MSF-Grading	Scrapers	2	7.5	Diesel
MSF-Grading	Tractors/Loaders/Backhoes	2	7.5	Diesel
MSF-Building Construction	Cranes	1	7.5	Diesel
MSF-Building Construction	Forklifts	3	7.5	Diesel
MSF-Building Construction	Generator Sets	1	7.5	Diesel
MSF-Building Construction	Tractors/Loaders/Backhoes	3	7.5	Diesel
MSF-Building Construction	Welders	1	7.5	Diesel
MSF-Paving	Pavers	2	7.5	Diesel
MSF-Paving	Paving Equipment	2	7.5	Diesel
MSF-Paving	Rollers	2	7.5	Diesel
MSF-Archictectural Coating	Air Compressors	1	7.5	Diesel
MSF-Test Track	Aerial Lifts	2	7.5	Diesel
MSF-Test Track	Rough Terrain Forklifts	2	7.5	Diesel
MSF-Test Track	Welders	2	7.5	Diesel
Precast Yard-Alt 4 Concrete Activity	Cranes	2	15	Diesel
Precast Yard-Alt 4 Concrete Activity	Cement and Mortar Mixers	2	15	Diesel
Precast Yard-Alt 4 Concrete Activity	Generator Sets	2	15	Diesel
Precast Yard-Alt 4 Concrete Activity	Other General Industrial Equipment	1	15	Diesel
Precast Yard-Alt 4 Concrete Activity	Pumps	2	15	Diesel
Precast Yard-Alt 4 Concrete Activity	Rough Terrain Forklifts	2	15	Diesel
Precast Yard-Alt 4 Concrete Activity	Tractors/Loaders/Backhoes	2	15	Diesel
Precast Yard-Alt 4 Concrete Activity	Welders	2	15	Diesel
NCZ Staging Area-Staging Activity	Cranes	1	15	Diesel
NCZ Staging Area-Staging Activity	Rough Terrain Forklifts	2	15	Diesel
NCZ Staging Area-Staging Activity	Skid Steer Loaders	2	15	Diesel
NCZ Staging Area-Staging Activity	Tractors/Loaders/Backhoes	2	15	Diesel
NCZ Staging Area-Staging Activity	Welders	2	15	Diesel
SCZ Staging Area-Staging Activity	Cranes	1	15	Diesel
SCZ Staging Area-Staging Activity	Rough Terrain Forklifts	2	15	Diesel
SCZ Staging Area-Staging Activity	Skid Steer Loaders	2	15	Diesel
SCZ Staging Area-Staging Activity	Tractors/Loaders/Backhoes	2	15	Diesel
SCZ Staging Area-Staging Activity	Welders	2	15	Diesel

Sepulveda Transit Corridor Project - ALTERNATIVE 4

DUST CONTROL MEASURES/ASSUMPTIONS

General Construction Assumptions	Value
Onsite Vehicle Speed (mph):	15
Onsite Trip Length (miles):	0.10
Number of Watering Events per Day:	3
General Worksite Dust Reduction (%)	74%

Dust Control Measures[1]

Activity Area	Control Measure	Control Efficiency (%)	Additional Notes
General Worksite	Apply water at various intervals to disturbed areas within construction site (**3.2-hour watering interval)**	61%	If using this reduction, account for 2 water trucks trips per day (4 one-way trips/2 onsite trips)
General Worksite	Apply water at various intervals to disturbed areas within construction site (**2.1-hour watering interval)**	74%	If using this reduction, account for 3 water trucks trips per day (6 one-way trips/3 onsite trips)
Unpaved Roads	Implement watering twice a day for industrial unpaved road.	55%	The analysis assumes water trucks used for general worksite would also water unpaved roads and provide water during demolition activities. The AQ analysis assumes 3 water trucks per day,
Demolition Activities	Apply water every 4 hours to the area within 100 feet of a structure being demolished, to reduce vehicle trackout.	36%	

Notes:

1. Western Regional Air Partnership (WRAP) Fugitive Dust Handbook. September 7, 2006. Prepared by Countess Environmental

Sepulveda Transit Corridor Project - ALTERNATIVE 4

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Emission Factor (g/bhp-hr)[3] ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	2028	Air Compressors	Air Compressors	1	7.5	37	0.5	Diesel	Fleet Avg	0.46	3.44	4.76	0.01	-	0.07	0.07	-	0.06	0.06	568.34	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	2028	Concrete/Industrial Saws	Concrete/Industrial Saws	2	7.5	33	0.7	Diesel	Fleet Avg	0.37	3.34	4.27	0.01	-	0.06	0.06	-	0.05	0.05	574.38	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	2028	Rough Terrain Forklifts	Rough Terrain Forklifts	1	7.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.60	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	2028	Skid Steer Loaders	Skid Steer Loaders	2	7.5	71	0.4	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.61	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	7.5	84	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.57	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	2028	Bore/Drill Rigs	Bore/Drill Rigs	2	7.5	83	0.5	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.64	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	2028	Cranes	Cranes	2	7.5	367	0.3	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.75	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	2028	Pumps	Pumps	2	7.5	11	0.7	Diesel	Fleet Avg	0.56	4.27	2.98	0.01	-	0.17	0.17	-	0.16	0.16	568.34	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	2028	Rough Terrain Forklifts	Rough Terrain Forklifts	2	7.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.60	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	7.5	84	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.57	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	2029	Cranes	Cranes	2	7.5	367	0.3	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	2029	Excavators	Excavators	2	7.5	36	0.4	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	7.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	7.5	84	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	2029	Cranes	Cranes	2	7.5	367	0.3	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	2029	Generator Sets	Generator Sets	2	7.5	14	0.7	Diesel	Fleet Avg	0.53	4.28	2.84	0.01	-	0.17	0.17	-	0.15	0.15	568.32	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	2029	Pumps	Pumps	2	7.5	11	0.7	Diesel	Fleet Avg	0.56	4.26	2.98	0.01	-	0.17	0.17	-	0.15	0.15	568.32	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	7.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	2029	Cranes	Cranes	4	15.0	367	0.3	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	2029	Generator Sets	Generator Sets	2	15.0	14	0.7	Diesel	Fleet Avg	0.53	4.28	2.84	0.01	-	0.17	0.17	-	0.15	0.15	568.32	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	2029	Pumps	Pumps	2	15.0	11	0.7	Diesel	Fleet Avg	0.56	4.26	2.98	0.01	-	0.17	0.17	-	0.15	0.15	568.32	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	2029	Welders	Welders	2	15.0	46	0.5	Diesel	Fleet Avg	0.39	3.31	4.41	0.01	-	0.05	0.05	-	0.05	0.05	568.30	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	2030	Aerial Lifts	Aerial Lifts	2	15.0	46	0.3	Diesel	Fleet Avg	0.15	2.86	3.07	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	2030	Cranes	Cranes	2	15.0	367	0.3	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	2030	Tunnel Boring Machine (TBM)	Tunnel Boring Machine (TBM	1	15.0	-	-	Electric	--	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	2032	Cranes	Cranes	4	15.0	367	0.3	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	2032	Generator Sets	Generator Sets	2	15.0	14	0.7	Diesel	Fleet Avg	0.53	4.26	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	2032	Pumps	Pumps	2	15.0	11	0.7	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.33	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	2032	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	2032	Welders	Welders	2	15.0	46	0.5	Diesel	Fleet Avg	0.35	3.21	4.36	0.01	-	0.03	0.03	-	0.03	0.03	568.31	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	2/13/2030	4/13/2032	7	791	20	2030	Aerial Lifts	Aerial Lifts	1	15.0	46	0.3	Diesel	Fleet Avg	0.15	2.86	3.07	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	2/13/2030	4/13/2032	7	791	20	2030	Air Compressors	Air Compressors	1	15.0	37	0.5	Diesel	Fleet Avg	0.42	3.34	4.71	0.01	-	0.05	0.05	-	0.04	0.04	568.32	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	2/13/2030	4/13/2032	7	791	20	2030	Rollers	Rollers	1	15.0	36	0.4	Diesel	Fleet Avg	0.47	3.46	4.06	0.01	-	0.12	0.12	-	0.11	0.11	587.11	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenur	4/14/2032	9/30/2033	7	535	20	2032	Aerial Lifts	Aerial Lifts	2	15.0	46	0.3	Diesel	Fleet Avg	0.15	2.85	3.06	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenur	4/14/2032	9/30/2033	7	535	20	2032	Cement and Mortar Mixers	Cement and Mortar Mixers	2	15.0	10	0.6	Diesel	Fleet Avg	0.55	4.19	3.25	0.01	-	0.16	0.16	-	0.15	0.15	570.11	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installatio	10/1/2033	5/15/2034	7	227	20	2033	Aerial Lifts	Aerial Lifts	1	15.0	46	0.3	Diesel	Fleet Avg	0.14	2.85	3.06	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installatio	10/1/2033	5/15/2034	7	227	20	2033	Air Compressors	Air Compressors	2	15.0	37	0.5	Diesel	Fleet Avg	0.39	3.25	4.68	0.01	-	0.03	0.03	-	0.03	0.03	568.34	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installatio	10/1/2033	5/15/2034	7	227	20	2033	Generator Sets	Generator Sets	2	15.0	14	0.7	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.31	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installatio	10/1/2033	5/15/2034	7	227	20	2033	Welders	Welders	3	15.0	46	0.5	Diesel	Fleet Avg	0.34	3.19	4.35	0.01	-	0.03	0.03	-	0.03	0.03	568.31	0.02	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	2027	Air Compressors	Air Compressors	1	7.5	37	0.5	Diesel	Fleet Avg	0.48	3.54	4.79	0.01	-	0.08	0.08	-	0.07	0.07	568.32	0.02	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	2027	Concrete/Industrial Saws	Concrete/Industrial Saws	2	7.5	33	0.7	Diesel	Fleet Avg	0.39	3.43	4.29	0.01	-	0.07	0.07	-	0.07	0.07	574.33	0.02	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	2027	Rough Terrain Forklifts	Rough Terrain Forklifts	1	7.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.69	0.02	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	2027	Skid Steer Loaders	Skid Steer Loaders	2	7.5	71	0.4	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.66	0.02	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	2027	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	7.5	84	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.62	0.02	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	2027	Bore/Drill Rigs	Bore/Drill Rigs	2	7.5	83	0.5	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.97	0.02	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	2027	Cranes	Cranes	2	7.5	367	0.3	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.45	0.02	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	2027	Pumps	Pumps	2	7.5	11	0.7	Diesel	Fleet Avg	0.56	4.29	2.99	0.01	-	0.17	0.17	-	0.16	0.16	568.30	0.02	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	2027	Rough Terrain Forklifts	Rough Terrain Forklifts	2	7.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.69	0.02	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	2027	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	7.5	84	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.62	0.02	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	2028	Cranes	Cranes	2	7.5	367	0.3	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.75	0.02	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	2028	Excavators	Excavators	2	7.5	36	0.4	Diesel	Fleet Avg	0.37	3.34	4.22	0.01	-	0.08	0.08	-	0.07	0.07	587.54	0.02	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	2028	Rough Terrain Forklifts	Rough Terrain Forklifts	2	7.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.60	0.02	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	7.5	84	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.57	0.02	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	2028	Cranes	Cranes	2	7.5	367	0.3	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.75	0.02	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	2028	Generator Sets	Generator Sets	2	7.5	14	0.7	Diesel	Fleet Avg	0.54	4.29	2.85	0.01	-	0.17	0.17	-	0.16	0.16	568.30	0.02	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	2028	Pumps	Pumps	2	7.5	11	0.7	Diesel	Fleet Avg	0.56	4.27	2.98	0.01	-	0.17	0.17	-	0.16	0.16	568.34	0.02	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	2028	Rough Terrain Forklifts	Rough Terrain Forklifts	2	7.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.60	0.02	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Cranes	Cranes	4	15.0	367	0.3	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.75	0.02	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Generator Sets	Generator Sets	2	15.0	14	0.7	Diesel	Fleet Avg	0.54	4.29	2.85	0.01	-	0.17	0.17	-	0.16	0.16	568.30	0.02	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Pumps	Pumps	2	15.0	11	0.7	Diesel	Fleet Avg	0.56	4.27	2.98	0.01	-	0.17	0.17	-	0.16	0.16	568.34	0.02	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.57	0.02	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Welders	Welders	2	15.0	46	0.5	Diesel	Fleet Avg	0.41	3.37	4.43	0.01	-	0.06	0.06	-	0.06	0.06	568.31	0.02	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	2029	Aerial Lifts	Aerial Lifts	2	15.0	46	0.3	Diesel	Fleet Avg	0.15	2.86	3.07	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	2029	Cranes	Cranes	2	15.0	367	0.3	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	2029	Tunnel Boring Machine (TBM)	Tunnel Boring Machine (TBM	1	15.0	-	-	Electric	--	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	2032	Cranes	Cranes	4	15.0	367	0.3	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	2032	Generator Sets	Generator Sets	2	15.0	14	0.7	Diesel	Fleet Avg	0.53	4.26	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	2032	Pumps	Pumps	2	15.0	11	0.7	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.33	0.02	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	2032	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	2032	Welders	Welders	2	15.0	46	0.5	Diesel	Fleet Avg	0.35	3.21	4.36	0.01	-	0.03	0.03	-	0.03	0.03	568.31	0.02	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 4

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Daily Emissions (lb/day) ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	2028	Air Compressors	Air Compressors	1	7.5	37	0.5	Diesel	Fleet Avg	0.13	1.01	1.40	0.00	-	0.02	0.02	-	0.02	0.02	166.9	0.01	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	2028	Concrete/Industrial Saws	Concrete/Industrial Saws	2	7.5	33	0.7	Diesel	Fleet Avg	0.30	2.66	3.40	0.01	-	0.05	0.05	-	0.04	0.04	457.6	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	2028	Rough Terrain Forklifts	Rough Terrain Forklifts	1	7.5	96	0.4	Diesel	Tier 4 Final	0.03	0.17	2.35	0.00	-	0.01	0.01	-	0.01	0.01	335.6	0.01	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	2028	Skid Steer Loaders	Skid Steer Loaders	2	7.5	71	0.4	Diesel	Tier 4 Final	0.08	2.38	3.21	0.00	-	0.01	0.01	-	0.01	0.01	459.2	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	7.5	84	0.4	Diesel	Tier 4 Final	0.05	0.27	3.80	0.01	-	0.01	0.01	-	0.01	0.01	544.3	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	2028	Bore/Drill Rigs	Bore/Drill Rigs	2	7.5	83	0.5	Diesel	Tier 4 Final	0.07	0.36	5.08	0.01	-	0.01	0.01	-	0.01	0.01	718.6	0.03	0.01
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	2028	Cranes	Cranes	2	7.5	367	0.3	Diesel	Tier 4 Final	0.18	0.92	9.15	0.02	-	0.04	0.04	-	0.04	0.04	1857.5	0.08	0.02
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	2028	Pumps	Pumps	2	7.5	11	0.7	Diesel	Fleet Avg	0.15	1.15	0.80	0.00	-	0.05	0.05	-	0.04	0.04	153.0	0.01	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	2028	Rough Terrain Forklifts	Rough Terrain Forklifts	2	7.5	96	0.4	Diesel	Tier 4 Final	0.06	0.33	4.70	0.01	-	0.01	0.01	-	0.01	0.01	671.3	0.03	0.01
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	7.5	84	0.4	Diesel	Tier 4 Final	0.05	0.27	3.80	0.01	-	0.01	0.01	-	0.01	0.01	544.3	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	2029	Cranes	Cranes	2	7.5	367	0.3	Diesel	Tier 4 Final	0.18	0.92	9.15	0.02	-	0.04	0.04	-	0.04	0.04	1857.0	0.08	0.02
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	2029	Excavators	Excavators	2	7.5	36	0.4	Diesel	Fleet Avg	0.16	1.50	1.91	0.00	-	0.03	0.03	-	0.03	0.03	266.0	0.01	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	7.5	96	0.4	Diesel	Tier 4 Final	0.06	0.33	4.70	0.01	-	0.01	0.01	-	0.01	0.01	671.4	0.03	0.01
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	7.5	84	0.4	Diesel	Tier 4 Final	0.05	0.27	3.80	0.01	-	0.01	0.01	-	0.01	0.01	544.0	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	2029	Cranes	Cranes	2	7.5	367	0.3	Diesel	Tier 4 Final	0.18	0.92	9.15	0.02	-	0.04	0.04	-	0.04	0.04	1857.0	0.08	0.02
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	2029	Generator Sets	Generator Sets	2	7.5	14	0.7	Diesel	Fleet Avg	0.18	1.46	0.97	0.00	-	0.06	0.06	-	0.05	0.05	194.7	0.01	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	2029	Pumps	Pumps	2	7.5	11	0.7	Diesel	Fleet Avg	0.15	1.15	0.80	0.00	-	0.05	0.05	-	0.04	0.04	153.0	0.01	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	7.5	96	0.4	Diesel	Tier 4 Final	0.06	0.33	4.70	0.01	-	0.01	0.01	-	0.01	0.01	671.4	0.03	0.01
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	2029	Cranes	Cranes	4	15.0	367	0.3	Diesel	Tier 4 Final	0.70	3.66	36.60	0.07	-	0.14	0.14	-	0.14	0.14	7427.9	0.30	0.06
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	2029	Generator Sets	Generator Sets	2	15.0	14	0.7	Diesel	Fleet Avg	0.37	2.93	1.95	0.01	-	0.11	0.11	-	0.11	0.11	389.4	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	2029	Pumps	Pumps	2	15.0	11	0.7	Diesel	Fleet Avg	0.30	2.29	1.60	0.00	-	0.09	0.09	-	0.08	0.08	306.0	0.01	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.0	0.04	0.01
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	2029	Welders	Welders	2	15.0	46	0.5	Diesel	Fleet Avg	0.53	4.54	6.03	0.01	-	0.07	0.07	-	0.07	0.07	778.0	0.03	0.01
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	2030	Aerial Lifts	Aerial Lifts	2	15.0	46	0.3	Diesel	Fleet Avg	0.14	2.70	2.89	0.01	-	0.02	0.02	-	0.02	0.02	553.5	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	2030	Cranes	Cranes	2	15.0	367	0.3	Diesel	Tier 4 Final	0.35	1.83	18.30	0.03	-	0.07	0.07	-	0.07	0.07	3713.9	0.15	0.03
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.13	0.66	9.40	0.01	-	0.03	0.03	-	0.03	0.03	1342.8	0.05	0.01
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	2030	Tunnel Boring Machine (TBM)	Tunnel Boring Machine (TBM	1	15.0	-	-	Electric	--	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.0	0.04	0.01
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	2032	Cranes	Cranes	4	15.0	367	0.3	Diesel	Tier 4 Final	0.70	3.66	36.60	0.07	-	0.14	0.14	-	0.14	0.14	7427.9	0.30	0.06
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	2032	Generator Sets	Generator Sets	2	15.0	14	0.7	Diesel	Fleet Avg	0.36	2.92	1.95	0.01	-	0.11	0.11	-	0.10	0.10	389.4	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	2032	Pumps	Pumps	2	15.0	11	0.7	Diesel	Fleet Avg	0.30	2.28	1.60	0.00	-	0.09	0.09	-	0.08	0.08	306.0	0.01	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	2032	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.0	0.04	0.01
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	2032	Welders	Welders	2	15.0	46	0.5	Diesel	Fleet Avg	0.48	4.40	5.97	0.01	-	0.05	0.05	-	0.04	0.04	778.1	0.03	0.01
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	2/13/2030	4/13/2032	7	791	20	2030	Aerial Lifts	Aerial Lifts	1	15.0	46	0.3	Diesel	Fleet Avg	0.07	1.35	1.45	0.00	-	0.01	0.01	-	0.01	0.01	276.8	0.01	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	2/13/2030	4/13/2032	7	791	20	2030	Air Compressors	Air Compressors	1	15.0	37	0.5	Diesel	Fleet Avg	0.25	1.96	2.77	0.00	-	0.03	0.03	-	0.03	0.03	333.8	0.01	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	2/13/2030	4/13/2032	7	791	20	2030	Rollers	Rollers	1	15.0	36	0.4	Diesel	Fleet Avg	0.21	1.57	1.84	0.00	-	0.05	0.05	-	0.05	0.05	265.6	0.01	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenur	4/14/2032	9/30/2033	7	535	20	2032	Aerial Lifts	Aerial Lifts	2	15.0	46	0.3	Diesel	Fleet Avg	0.14	2.69	2.89	0.01	-	0.02	0.02	-	0.02	0.02	553.5	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenur	4/14/2032	9/30/2033	7	535	20	2032	Cement and Mortar Mixers	Cement and Mortar Mixers	2	15.0	10	0.6	Diesel	Fleet Avg	0.20	1.55	1.21	0.00	-	0.06	0.06	-	0.06	0.06	211.2	0.01	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installatio	10/1/2033	5/15/2034	7	227	20	2033	Aerial Lifts	Aerial Lifts	1	15.0	46	0.3	Diesel	Fleet Avg	0.07	1.34	1.44	0.00	-	0.01	0.01	-	0.01	0.01	276.8	0.01	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installatio	10/1/2033	5/15/2034	7	227	20	2033	Air Compressors	Air Compressors	2	15.0	37	0.5	Diesel	Fleet Avg	0.46	3.82	5.50	0.01	-	0.04	0.04	-	0.03	0.03	667.6	0.03	0.01
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installatio	10/1/2033	5/15/2034	7	227	20	2033	Generator Sets	Generator Sets	2	15.0	14	0.7	Diesel	Fleet Avg	0.36	2.91	1.95	0.01	-	0.11	0.11	-	0.10	0.10	389.4	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installatio	10/1/2033	5/15/2034	7	227	20	2033	Welders	Welders	3	15.0	46	0.5	Diesel	Fleet Avg	0.70	6.54	8.94	0.02	-	0.06	0.06	-	0.05	0.05	1167.1	0.05	0.01
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	2027	Air Compressors	Air Compressors	1	7.5	37	0.5	Diesel	Fleet Avg	0.14	1.04	1.41	0.00	-	0.02	0.02	-	0.02	0.02	166.9	0.01	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	2027	Concrete/Industrial Saws	Concrete/Industrial Saws	2	7.5	33	0.7	Diesel	Fleet Avg	0.31	2.73	3.42	0.01	-	0.06	0.06	-	0.05	0.05	457.5	0.02	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	2027	Rough Terrain Forklifts	Rough Terrain Forklifts	1	7.5	96	0.4	Diesel	Tier 4 Final	0.03	0.17	2.35	0.00	-	0.01	0.01	-	0.01	0.01	335.7	0.01	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	2027	Skid Steer Loaders	Skid Steer Loaders	2	7.5	71	0.4	Diesel	Tier 4 Final	0.08	2.38	3.21	0.00	-	0.01	0.01	-	0.01	0.01	459.3	0.02	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	2027	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	7.5	84	0.4	Diesel	Tier 4 Final	0.05	0.27	3.80	0.01	-	0.01	0.01	-	0.01	0.01	544.3	0.02	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	2027	Bore/Drill Rigs	Bore/Drill Rigs	2	7.5	83	0.5	Diesel	Tier 4 Final	0.07	0.36	5.08	0.01	-	0.01	0.01	-	0.01	0.01	719.1	0.03	0.01
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	2027	Cranes	Cranes	2	7.5	367	0.3	Diesel	Tier 4 Final	0.18	0.92	9.15	0.02	-	0.04	0.04	-	0.04	0.04	1856.4	0.08	0.02
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	2027	Pumps	Pumps	2	7.5	11	0.7	Diesel	Fleet Avg	0.15	1.15	0.80	0.00	-	0.05	0.05	-	0.04	0.04	153.0	0.01	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	2027	Rough Terrain Forklifts	Rough Terrain Forklifts	2	7.5	96	0.4	Diesel	Tier 4 Final	0.06	0.33	4.70	0.01	-	0.01	0.01	-	0.01	0.01	671.4	0.03	0.01
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	2027	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	7.5	84	0.4	Diesel	Tier 4 Final	0.05	0.27	3.80	0.01	-	0.01	0.01	-	0.01	0.01	544.3	0.02	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	2028	Cranes	Cranes	2	7.5	367	0.3	Diesel	Tier 4 Final	0.18	0.92	9.15	0.02	-	0.04	0.04	-	0.04	0.04	1857.5	0.08	0.02
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	2028	Excavators	Excavators	2	7.5	36	0.4	Diesel	Fleet Avg	0.17	1.51	1.91	0.00	-	0.04	0.04	-	0.03	0.03	265.8	0.01	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	2028	Rough Terrain Forklifts	Rough Terrain Forklifts	2	7.5	96	0.4	Diesel	Tier 4 Final	0.06	0.33	4.70	0.01	-	0.01	0.01	-	0.01	0.01	671.3	0.03	0.01
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	7.5	84	0.4	Diesel	Tier 4 Final	0.05	0.27	3.80	0.01	-	0.01	0.01	-	0.01	0.01	544.3	0.02	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	2028	Cranes	Cranes	2	7.5	367	0.3	Diesel	Tier 4 Final	0.18	0.92	9.15	0.02	-	0.04	0.04	-	0.04	0.04	1857.5	0.08	0.02
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	2028	Generator Sets	Generator Sets	2	7.5	14	0.7	Diesel	Fleet Avg	0.18	1.47	0.98	0.00	-	0.06	0.06	-	0.05	0.05	194.7	0.01	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	2028	Pumps	Pumps	2	7.5	11	0.7	Diesel	Fleet Avg	0.15	1.15	0.80	0.00	-	0.05	0.05	-	0.04	0.04	153.0	0.01	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	2028	Rough Terrain Forklifts	Rough Terrain Forklifts	2	7.5	96	0.4	Diesel	Tier 4 Final	0.06	0.33	4.70	0.01	-	0.01	0.01	-	0.01	0.01	671.3	0.03	0.01
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Cranes	Cranes	4	15.0	367	0.3	Diesel	Tier 4 Final	0.70	3.66	36.60	0.07	-	0.14	0.14	-	0.14	0.14	7429.9	0.30	0.06
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Generator Sets	Generator Sets	2	15.0	14	0.7	Diesel	Fleet Avg	0.37	2.94	1.95	0.01	-	0.12	0.12	-	0.11	0.11	389.4	0.02	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Pumps	Pumps	2	15.0	11	0.7	Diesel	Fleet Avg	0.30	2.30	1.60	0.00	-	0.09	0.09	-	0.08	0.08	306.0	0.01	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.6	0.04	0.01
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Welders	Welders	2	15.0	46	0.5	Diesel	Fleet Avg	0.56	4.61	6.07	0.01	-	0.09	0.09	-	0.08	0.08	778.1	0.03	0.01
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	2029	Aerial Lifts	Aerial Lifts	2	15.0	46	0.3	Diesel	Fleet Avg	0.14	2.70	2.90	0.01	-	0.02	0.02	-	0.02	0.02	553.5	0.02	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	2029	Cranes	Cranes	2	15.0	367	0.3	Diesel	Tier 4 Final	0.35	1.83	18.30	0.03	-	0.07	0.07	-	0.07	0.07	3713.9	0.15	0.03
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.13	0.66	9.40	0.01	-	0.03	0.03	-	0.03	0.03	1342.8	0.05	0.01
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	2029	Tunnel Boring Machine (TBM)	Tunnel Boring Machine (TBM	1	15.0	-	-	Electric	--	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.0	0.04	0.01
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	2032	Cranes	Cranes	4	15.0	367	0.3	Diesel	Tier 4 Final	0.70	3.66	36.60	0.07	-	0.14	0.14	-	0.14	0.14	7427.9	0.30	0.06
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	2032	Generator Sets	Generator Sets	2	15.0	14	0.7	Diesel	Fleet Avg	0.36	2.92	1.95	0.01	-	0.11	0.11	-	0.10	0.10	389.4	0.02	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	2032	Pumps	Pumps	2	15.0	11	0.7	Diesel	Fleet Avg	0.30	2.28	1.60	0.00	-	0.09	0.09	-	0.08	0.08	306.0	0.01	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	2032	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.0	0.04	0.01
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	2032	Welders	Welders	2	15.0	46	0.5	Diesel	Fleet Avg	0.48	4.40	5.97	0.01	-	0.05	0.05	-	0.04	0.04	778.1	0.03	0.01

Sepulveda Transit Corridor Project - ALTERNATIVE 4

OFFROAD EQUIPMENT (ONSITE)[1]

															Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP^2	LF^2	Fuel Type	Engine Tier	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	2028	Air Compressors	Air Compressors	1	7.5	37	0.5	Diesel	Fleet Avg	0.01	0.04	0.05	0.00	-	0.00	0.00	-	0.00	0.00	5.9	0.00	0.00	5.9
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	2028	Concrete/Industrial Saws	Concrete/Industrial Saws	2	7.5	33	0.7	Diesel	Fleet Avg	0.01	0.10	0.13	0.00	-	0.00	0.00	-	0.00	0.00	16.2	0.00	0.00	16.2
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	2028	Rough Terrain Forklifts	Rough Terrain Forklifts	1	7.5	96	0.4	Diesel	Tier 4 Final	0.00	0.01	0.09	0.00	-	0.00	0.00	-	0.00	0.00	11.9	0.00	0.00	11.9
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	2028	Skid Steer Loaders	Skid Steer Loaders	2	7.5	71	0.4	Diesel	Tier 4 Final	0.00	0.09	0.13	0.00	-	0.00	0.00	-	0.00	0.00	16.2	0.00	0.00	16.3
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	7.5	84	0.4	Diesel	Tier 4 Final	0.00	0.01	0.15	0.00	-	0.00	0.00	-	0.00	0.00	19.3	0.00	0.00	19.3
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	2028	Bore/Drill Rigs	Bore/Drill Rigs	2	7.5	83	0.5	Diesel	Tier 4 Final	0.00	0.02	0.26	0.00	-	0.00	0.00	-	0.00	0.00	33.9	0.00	0.00	34.0
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	2028	Cranes	Cranes	2	7.5	367	0.3	Diesel	Tier 4 Final	0.01	0.05	0.48	0.00	-	0.00	0.00	-	0.00	0.00	87.6	0.00	0.00	87.9
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	2028	Pumps	Pumps	2	7.5	11	0.7	Diesel	Fleet Avg	0.01	0.06	0.04	0.00	-	0.00	0.00	-	0.00	0.00	7.2	0.00	0.00	7.2
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	2028	Rough Terrain Forklifts	Rough Terrain Forklifts	2	7.5	96	0.4	Diesel	Tier 4 Final	0.00	0.02	0.24	0.00	-	0.00	0.00	-	0.00	0.00	31.7	0.00	0.00	31.8
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	7.5	84	0.4	Diesel	Tier 4 Final	0.00	0.01	0.20	0.00	-	0.00	0.00	-	0.00	0.00	25.7	0.00	0.00	25.8
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	2029	Cranes	Cranes	2	7.5	367	0.3	Diesel	Tier 4 Final	0.01	0.05	0.48	0.00	-	0.00	0.00	-	0.00	0.00	87.6	0.00	0.00	87.9
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	2029	Excavators	Excavators	2	7.5	36	0.4	Diesel	Fleet Avg	0.01	0.08	0.10	0.00	-	0.00	0.00	-	0.00	0.00	12.5	0.00	0.00	12.6
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	7.5	96	0.4	Diesel	Tier 4 Final	0.00	0.02	0.24	0.00	-	0.00	0.00	-	0.00	0.00	31.7	0.00	0.00	31.8
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	7.5	84	0.4	Diesel	Tier 4 Final	0.00	0.01	0.20	0.00	-	0.00	0.00	-	0.00	0.00	25.7	0.00	0.00	25.7
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	2029	Cranes	Cranes	2	7.5	367	0.3	Diesel	Tier 4 Final	0.00	0.02	0.22	0.00	-	0.00	0.00	-	0.00	0.00	41.3	0.00	0.00	41.4
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	2029	Generator Sets	Generator Sets	2	7.5	14	0.7	Diesel	Fleet Avg	0.00	0.04	0.02	0.00	-	0.00	0.00	-	0.00	0.00	4.3	0.00	0.00	4.3
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	2029	Pumps	Pumps	2	7.5	11	0.7	Diesel	Fleet Avg	0.00	0.03	0.02	0.00	-	0.00	0.00	-	0.00	0.00	3.4	0.00	0.00	3.4
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	7.5	96	0.4	Diesel	Tier 4 Final	0.00	0.01	0.12	0.00	-	0.00	0.00	-	0.00	0.00	14.9	0.00	0.00	15.0
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	2029	Cranes	Cranes	4	15.0	367	0.3	Diesel	Tier 4 Final	0.04	0.23	2.31	0.00	-	0.01	0.01	-	0.01	0.01	424.5	0.02	0.00	426.0
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	2029	Generator Sets	Generator Sets	2	15.0	14	0.7	Diesel	Fleet Avg	0.02	0.18	0.12	0.00	-	0.01	0.01	-	0.01	0.01	22.3	0.00	0.00	22.3
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	2029	Pumps	Pumps	2	15.0	11	0.7	Diesel	Fleet Avg	0.02	0.14	0.10	0.00	-	0.01	0.01	-	0.01	0.01	17.5	0.00	0.00	17.5
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.01	0.03	0.48	0.00	-	0.00	0.00	-	0.00	0.00	62.2	0.00	0.00	62.4
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	2029	Welders	Welders	2	15.0	46	0.5	Diesel	Fleet Avg	0.03	0.29	0.38	0.00	-	0.00	0.00	-	0.00	0.00	44.5	0.00	0.00	44.6
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	2030	Aerial Lifts	Aerial Lifts	2	15.0	46	0.3	Diesel	Fleet Avg	0.06	1.07	1.14	0.00	-	0.01	0.01	-	0.01	0.01	198.6	0.01	0.00	199.3
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	2030	Cranes	Cranes	2	15.0	367	0.3	Diesel	Tier 4 Final	0.14	0.72	7.24	0.01	-	0.03	0.03	-	0.03	0.03	1332.5	0.05	0.01	1337.1
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.72	0.00	-	0.01	0.01	-	0.01	0.01	481.8	0.02	0.00	483.4
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	2030	Tunnel Boring Machine (TBM)	Tunnel Boring Machine (TBM	1	15.0	-	-	Electric	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.04	0.21	3.01	0.00	-	0.01	0.01	-	0.01	0.01	390.3	0.02	0.00	391.7
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	2032	Cranes	Cranes	4	15.0	367	0.3	Diesel	Tier 4 Final	0.03	0.17	1.67	0.00	-	0.01	0.01	-	0.01	0.01	306.6	0.01	0.00	307.7
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	2032	Generator Sets	Generator Sets	2	15.0	14	0.7	Diesel	Fleet Avg	0.02	0.13	0.09	0.00	-	0.01	0.01	-	0.00	0.00	16.1	0.00	0.00	16.1
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	2032	Pumps	Pumps	2	15.0	11	0.7	Diesel	Fleet Avg	0.01	0.10	0.07	0.00	-	0.00	0.00	-	0.00	0.00	12.6	0.00	0.00	12.7
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	2032	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.00	0.02	0.35	0.00	-	0.00	0.00	-	0.00	0.00	44.9	0.00	0.00	45.1
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	2032	Welders	Welders	2	15.0	46	0.5	Diesel	Fleet Avg	0.02	0.20	0.27	0.00	-	0.00	0.00	-	0.00	0.00	32.1	0.00	0.00	32.2
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	2/13/2030	4/13/2032	7	791	20	2030	Aerial Lifts	Aerial Lifts	1	15.0	46	0.3	Diesel	Fleet Avg	0.03	0.53	0.57	0.00	-	0.00	0.00	-	0.00	0.00	99.3	0.00	0.00	99.6
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	2/13/2030	4/13/2032	7	791	20	2030	Air Compressors	Air Compressors	1	15.0	37	0.5	Diesel	Fleet Avg	0.10	0.78	1.09	0.00	-	0.01	0.01	-	0.01	0.01	119.8	0.00	0.00	120.2
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	2/13/2030	4/13/2032	7	791	20	2030	Rollers	Rollers	1	15.0	36	0.4	Diesel	Fleet Avg	0.08	0.62	0.73	0.00	-	0.02	0.02	-	0.02	0.02	95.3	0.00	0.00	95.6
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenur	4/14/2032	9/30/2033	7	535	20	2032	Aerial Lifts	Aerial Lifts	2	15.0	46	0.3	Diesel	Fleet Avg	0.04	0.72	0.77	0.00	-	0.00	0.00	-	0.00	0.00	134.3	0.01	0.00	134.8
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenur	4/14/2032	9/30/2033	7	535	20	2032	Cement and Mortar Mixers	Cement and Mortar Mixers	2	15.0	10	0.6	Diesel	Fleet Avg	0.05	0.42	0.32	0.00	-	0.02	0.02	-	0.01	0.01	51.2	0.00	0.00	51.4
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installatio	10/1/2033	5/15/2034	7	227	20	2033	Aerial Lifts	Aerial Lifts	1	15.0	46	0.3	Diesel	Fleet Avg	0.01	0.15	0.16	0.00	-	0.00	0.00	-	0.00	0.00	28.5	0.00	0.00	28.6
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installatio	10/1/2033	5/15/2034	7	227	20	2033	Air Compressors	Air Compressors	2	15.0	37	0.5	Diesel	Fleet Avg	0.05	0.43	0.62	0.00	-	0.00	0.00	-	0.00	0.00	68.7	0.00	0.00	69.0
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installatio	10/1/2033	5/15/2034	7	227	20	2033	Generator Sets	Generator Sets	2	15.0	14	0.7	Diesel	Fleet Avg	0.04	0.33	0.22	0.00	-	0.01	0.01	-	0.01	0.01	40.1	0.00	0.00	40.2
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installatio	10/1/2033	5/15/2034	7	227	20	2033	Welders	Welders	3	15.0	46	0.5	Diesel	Fleet Avg	0.08	0.74	1.01	0.00	-	0.01	0.01	-	0.01	0.01	120.2	0.00	0.00	120.6
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	2027	Air Compressors	Air Compressors	1	7.5	37	0.5	Diesel	Fleet Avg	0.01	0.07	0.09	0.00	-	0.00	0.00	-	0.00	0.00	9.9	0.00	0.00	10.0
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	2027	Concrete/Industrial Saws	Concrete/Industrial Saws	2	7.5	33	0.7	Diesel	Fleet Avg	0.02	0.18	0.22	0.00	-	0.00	0.00	-	0.00	0.00	27.2	0.00	0.00	27.3
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	2027	Rough Terrain Forklifts	Rough Terrain Forklifts	1	7.5	96	0.4	Diesel	Tier 4 Final	0.00	0.01	0.15	0.00	-	0.00	0.00	-	0.00	0.00	19.9	0.00	0.00	20.0
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	2027	Skid Steer Loaders	Skid Steer Loaders	2	7.5	71	0.4	Diesel	Tier 4 Final	0.01	0.16	0.21	0.00	-	0.00	0.00	-	0.00	0.00	27.3	0.00	0.00	27.4
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	2027	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	7.5	84	0.4	Diesel	Tier 4 Final	0.00	0.02	0.25	0.00	-	0.00	0.00	-	0.00	0.00	32.3	0.00	0.00	32.5
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	2027	Bore/Drill Rigs	Bore/Drill Rigs	2	7.5	83	0.5	Diesel	Tier 4 Final	0.00	0.02	0.27	0.00	-	0.00	0.00	-	0.00	0.00	34.2	0.00	0.00	34.4
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	2027	Cranes	Cranes	2	7.5	367	0.3	Diesel	Tier 4 Final	0.01	0.05	0.48	0.00	-	0.00	0.00	-	0.00	0.00	88.4	0.00	0.00	88.7
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	2027	Pumps	Pumps	2	7.5	11	0.7	Diesel	Fleet Avg	0.01	0.06	0.04	0.00	-	0.00	0.00	-	0.00	0.00	7.3	0.00	0.00	7.3
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	2027	Rough Terrain Forklifts	Rough Terrain Forklifts	2	7.5	96	0.4	Diesel	Tier 4 Final	0.00	0.02	0.25	0.00	-	0.00	0.00	-	0.00	0.00	32.0	0.00	0.00	32.1
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	2027	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	7.5	84	0.4	Diesel	Tier 4 Final	0.00	0.01	0.20	0.00	-	0.00	0.00	-	0.00	0.00	25.9	0.00	0.00	26.0
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	2028	Cranes	Cranes	2	7.5	367	0.3	Diesel	Tier 4 Final	0.01	0.05	0.48	0.00	-	0.00	0.00	-	0.00	0.00	87.6	0.00	0.00	87.9
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	2028	Excavators	Excavators	2	7.5	36	0.4	Diesel	Fleet Avg	0.01	0.08	0.10	0.00	-	0.00	0.00	-	0.00	0.00	12.5	0.00	0.00	12.6
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	2028	Rough Terrain Forklifts	Rough Terrain Forklifts	2	7.5	96	0.4	Diesel	Tier 4 Final	0.00	0.02	0.24	0.00	-	0.00	0.00	-	0.00	0.00	31.7	0.00	0.00	31.8
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	7.5	84	0.4	Diesel	Tier 4 Final	0.00	0.01	0.20	0.00	-	0.00	0.00	-	0.00	0.00	25.7	0.00	0.00	25.8
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	2028	Cranes	Cranes	2	7.5	367	0.3	Diesel	Tier 4 Final	0.00	0.02	0.24	0.00	-	0.00	0.00	-	0.00	0.00	44.7	0.00	0.00	44.8
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	2028	Generator Sets	Generator Sets	2	7.5	14	0.7	Diesel	Fleet Avg	0.00	0.04	0.03	0.00	-	0.00	0.00	-	0.00	0.00	4.7	0.00	0.00	4.7
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	2028	Pumps	Pumps	2	7.5	11	0.7	Diesel	Fleet Avg	0.00	0.03	0.02	0.00	-	0.00	0.00	-	0.00	0.00	3.7	0.00	0.00	3.7
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	2028	Rough Terrain Forklifts	Rough Terrain Forklifts	2	7.5	96	0.4	Diesel	Tier 4 Final	0.00	0.01	0.12	0.00	-	0.00	0.00	-	0.00	0.00	16.1	0.00	0.00	16.2
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Cranes	Cranes	4	15.0	367	0.3	Diesel	Tier 4 Final	0.04	0.22	2.23	0.00	-	0.01	0.01	-	0.01	0.01	411.2	0.02	0.00	412.6
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Generator Sets	Generator Sets	2	15.0	14	0.7	Diesel	Fleet Avg	0.02	0.18	0.12	0.00	-	0.01	0.01	-	0.01	0.01	21.5	0.00	0.00	21.6
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Pumps	Pumps	2	15.0	11	0.7	Diesel	Fleet Avg	0.02	0.14	0.10	0.00	-	0.01	0.01	-	0.01	0.01	16.9	0.00	0.00	17.0
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.01	0.03	0.46	0.00	-	0.00	0.00	-	0.00	0.00	60.2	0.00	0.00	60.4
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Welders	Welders	2	15.0	46	0.5	Diesel	Fleet Avg	0.03	0.28	0.37	0.00	-	0.01	0.01	-	0.00	0.00	43.1	0.00	0.00	43.2
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	2029	Aerial Lifts	Aerial Lifts	2	15.0	46	0.3	Diesel	Fleet Avg	0.10	1.88	2.02	0.00	-	0.01	0.01	-	0.01	0.01	350.3	0.01	0.00	351.5
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	2029	Cranes	Cranes	2	15.0	367	0.3	Diesel	Tier 4 Final	0.25	1.28	12.77	0.02	-	0.05	0.05	-	0.05	0.05	2350.0	0.10	0.02	2358.1
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.09	0.46	6.55	0.01	-	0.02	0.02	-	0.02	0.02	849.7	0.03	0.01	852.6
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	2029	Tunnel Boring Machine (TBM)	Tunnel Boring Machine (TBM	1	15.0	-	-	Electric	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.07	0.37	5.30	0.01	-	0.01	0.01	-	0.01	0.01	688.4	0.03	0.01	690.8
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	2032	Cranes	Cranes	4	15.0	367	0.3	Diesel	Tier 4 Final	0.03	0.16	1.65	0.00	-	0.01	0.01	-	0.01	0.01	303.2	0.01	0.00	304.3
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	2032	Generator Sets	Generator Sets	2	15.0	14	0.7	Diesel	Fleet Avg	0.02	0.13	0.09	0.00	-	0.01	0.01	-	0.00	0.00	15.9	0.00	0.00	16.0
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	2032	Pumps	Pumps	2	15.0	11	0.7	Diesel	Fleet Avg	0.01	0.10	0.07	0.00	-	0.00	0.00	-	0.00	0.00	12.5	0.00	0.00	12.5
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	2032	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.00	0.02	0.34	0.00	-	0.00	0.00	-	0.00	0.00	44.4	0.00	0.00	44.6
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	2032	Welders	Welders	2	15.0	46	0.5	Diesel	Fleet Avg	0.02	0.20	0.27	0.00	-	0.00	0.00	-	0.00	0.00	31.8	0.00	0.00	31.9

Sepulveda Transit Corridor Project - ALTERNATIVE 4

OFFROAD EQUIPMENT (ONSITE)[1]

															Emission Factor (g/bhp-hr)[3]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Fill	3/1/2029	12/31/2032	7	1402	20	2029	Aerial Lifts	Aerial Lifts	1	15.0	46	0.3	Diesel	Fleet Avg	0.15	2.86	3.07	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Fill	3/1/2029	12/31/2032	7	1402	20	2029	Air Compressors	Air Compressors	1	15.0	37	0.5	Diesel	Fleet Avg	0.44	3.38	4.73	0.01	-	0.05	0.05	-	0.05	0.05	568.31	0.02	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Fill	3/1/2029	12/31/2032	7	1402	20	2029	Rollers	Rollers	1	15.0	36	0.4	Diesel	Fleet Avg	0.49	3.48	4.09	0.01	-	0.13	0.13	-	0.12	0.12	587.11	0.02	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Slabs, Walkways, Plenum	9/3/2032	8/31/2034	7	728	20	2032	Aerial Lifts	Aerial Lifts	2	15.0	46	0.3	Diesel	Fleet Avg	0.15	2.85	3.06	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Slabs, Walkways, Plenum	9/3/2032	8/31/2034	7	728	20	2032	Cement and Mortar Mixers	Cement and Mortar Mixers	2	15.0	10	0.6	Diesel	Fleet Avg	0.55	4.19	3.25	0.01	-	0.16	0.16	-	0.15	0.15	570.11	0.02	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	2034	Aerial Lifts	Aerial Lifts	2	15.0	46	0.3	Diesel	Fleet Avg	0.14	2.85	3.06	0.01	-	0.02	0.02	-	0.01	0.01	586.90	0.02	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	2034	Air Compressors	Air Compressors	2	15.0	37	0.5	Diesel	Fleet Avg	0.39	3.23	4.68	0.01	-	0.03	0.03	-	0.02	0.02	568.40	0.02	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	2034	Generator Sets	Generator Sets	2	15.0	14	0.7	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	2034	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	2029	Air Compressors	Air Compressors	1	15.0	37	0.5	Diesel	Fleet Avg	0.44	3.38	4.73	0.01	-	0.05	0.05	-	0.05	0.05	568.31	0.02	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	2029	Concrete/Industrial Saws	Concrete/Industrial Saws	2	15.0	33	0.7	Diesel	Fleet Avg	0.35	3.29	4.26	0.01	-	0.05	0.05	-	0.04	0.04	574.49	0.02	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	1	15.0	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	2029	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.4	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.01	0.02	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	2030	Aerial Lifts	Aerial Lifts	4	15.0	46	0.3	Diesel	Fleet Avg	0.15	2.86	3.07	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	2030	Bore/Drill Rigs	Bore/Drill Rigs	4	15.0	83	0.5	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.33	0.02	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	2030	Cranes	Cranes	4	15.0	367	0.3	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	2030	Pumps	Pumps	4	15.0	11	0.7	Diesel	Fleet Avg	0.56	4.25	2.97	0.01	-	0.17	0.17	-	0.15	0.15	568.35	0.02	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	2030	Rollers	Rollers	4	15.0	36	0.4	Diesel	Fleet Avg	0.47	3.46	4.06	0.01	-	0.12	0.12	-	0.11	0.11	587.11	0.02	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	4	15.0	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	2030	Aerial Lifts	Aerial Lifts	4	15.0	46	0.3	Diesel	Fleet Avg	0.15	2.86	3.07	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	2030	Cranes	Cranes	4	15.0	367	0.3	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	2030	Pumps	Pumps	4	15.0	11	0.7	Diesel	Fleet Avg	0.56	4.25	2.97	0.01	-	0.17	0.17	-	0.15	0.15	568.35	0.02	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	4	15.0	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	2032	Aerial Lifts	Aerial Lifts	4	15.0	46	0.3	Diesel	Fleet Avg	0.15	2.85	3.06	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	2032	Cranes	Cranes	4	15.0	367	0.3	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	2032	Pumps	Pumps	4	15.0	11	0.7	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.33	0.02	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	2032	Rough Terrain Forklifts	Rough Terrain Forklifts	4	15.0	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	11/20/2030	1/15/2031	6	49	20	2030	Aerial Lifts	Aerial Lifts	4	15.0	46	0.3	Diesel	Fleet Avg	0.15	2.86	3.07	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	11/20/2030	1/15/2031	6	49	20	2030	Cranes	Cranes	4	15.0	367	0.3	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	11/20/2030	1/15/2031	6	49	20	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	2031	Aerial Lifts	Aerial Lifts	2	15.0	46	0.3	Diesel	Fleet Avg	0.15	2.85	3.07	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	2031	Cranes	Cranes	4	15.0	367	0.3	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	2031	Excavators	Excavators	2	15.0	36	0.4	Diesel	Fleet Avg	0.31	3.28	4.17	0.01	-	0.06	0.06	-	0.05	0.05	588.07	0.02	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	2031	Other Construction Equipment	Other Construction Equipme	2	15.0	82	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	526.88	0.02	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	1/5/2034	2/3/2034	6	26	20	2034	Aerial Lifts	Aerial Lifts	4	15.0	46	0.3	Diesel	Fleet Avg	0.14	2.85	3.06	0.01	-	0.02	0.02	-	0.01	0.01	586.90	0.02	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	1/5/2034	2/3/2034	6	26	20	2034	Cranes	Cranes	4	15.0	367	0.3	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	1/5/2034	2/3/2034	6	26	20	2034	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	2034	Aerial Lifts	Aerial Lifts	2	15.0	46	0.3	Diesel	Fleet Avg	0.14	2.85	3.06	0.01	-	0.02	0.02	-	0.01	0.01	586.90	0.02	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	2034	Air Compressors	Air Compressors	4	15.0	37	0.5	Diesel	Fleet Avg	0.39	3.23	4.68	0.01	-	0.03	0.03	-	0.02	0.02	568.40	0.02	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	2034	Generator Sets	Generator Sets	2	15.0	14	0.7	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	2034	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.4	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.01	0.02	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	2034	Welders	Welders	3	15.0	46	0.5	Diesel	Fleet Avg	0.34	3.17	4.35	0.01	-	0.03	0.03	-	0.02	0.02	568.32	0.02	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	2034	Air Compressors	Air Compressors	2	15.0	37	0.5	Diesel	Fleet Avg	0.39	3.23	4.68	0.01	-	0.03	0.03	-	0.02	0.02	568.40	0.02	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	2034	Generator Sets	Generator Sets	2	15.0	14	0.7	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	2034	Cranes	Cranes	2	15.0	367	0.3	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	2034	Welders	Welders	3	15.0	46	0.5	Diesel	Fleet Avg	0.34	3.17	4.35	0.01	-	0.03	0.03	-	0.02	0.02	568.32	0.02	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	8/18/2032	8/15/2033	6	311	20	2032	Pavers	Pavers	2	15.0	81	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	525.85	0.02	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	8/18/2032	8/15/2033	6	311	20	2032	Paving Equipment	Paving Equipment	2	15.0	89	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	8/18/2032	8/15/2033	6	311	20	2032	Rollers	Rollers	2	15.0	36	0.4	Diesel	Fleet Avg	0.42	3.41	4.01	0.01	-	0.10	0.10	-	0.09	0.09	587.11	0.02	0.00
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Air Compressors	Air Compressors	1	7.5	37	0.5	Diesel	Fleet Avg	0.42	3.34	4.71	0.01	-	0.05	0.05	-	0.04	0.04	568.32	0.02	0.00
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Concrete/Industrial Saws	Concrete/Industrial Saws	2	7.5	33	0.7	Diesel	Fleet Avg	0.34	3.25	4.24	0.01	-	0.04	0.04	-	0.04	0.04	574.00	0.02	0.00
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	1	7.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Skid Steer Loaders	Skid Steer Loaders	2	7.5	71	0.4	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.01	0.02	0.00
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	7.5	84	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	2030	Cranes	Cranes	1	7.5	367	0.3	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	1	7.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	2030	Skid Steer Loaders	Skid Steer Loaders	1	7.5	71	0.4	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.01	0.02	0.00
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	1	7.5	84	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	2030	Welders	Welders	1	7.5	46	0.5	Diesel	Fleet Avg	0.37	3.27	4.39	0.01	-	0.05	0.05	-	0.04	0.04	568.30	0.02	0.00
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Air Compressors	Air Compressors	1	15.0	37	0.5	Diesel	Fleet Avg	0.48	3.54	4.79	0.01	-	0.08	0.08	-	0.07	0.07	568.32	0.02	0.00
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Concrete/Industrial Saws	Concrete/Industrial Saws	2	15.0	33	0.7	Diesel	Fleet Avg	0.39	3.43	4.29	0.01	-	0.07	0.07	-	0.07	0.07	574.33	0.02	0.00
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Rough Terrain Forklifts	Rough Terrain Forklifts	1	15.0	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.69	0.02	0.00
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.4	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.66	0.02	0.00
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.62	0.02	0.00
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Bore/Drill Rigs	Bore/Drill Rigs	2	15.0	83	0.5	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.64	0.02	0.00
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Cranes	Cranes	2	15.0	367	0.3	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.75	0.02	0.00
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Pumps	Pumps	2	15.0	11	0.7	Diesel	Fleet Avg	0.56	4.27	2.98	0.01	-	0.17	0.17	-	0.16	0.16	568.34	0.02	0.00
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.60	0.02	0.00
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.57	0.02	0.00
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	2029	Aerial Lifts	Aerial Lifts	2	15.0	46	0.3	Diesel	Fleet Avg	0.15	2.86	3.07	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	2029	Cranes	Cranes	2	15.0	367	0.3	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	2029	Excavators	Excavators	2	15.0	36	0.4	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Metro E Line Stn_U-Alt4-TBM Pass Through-Maintenance	6/1/2030	7/31/2030	6	52	20	2030	Cranes	Cranes	1	15.0	367	0.3	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Metro E Line Stn_U-Alt4-TBM Pass Through-Maintenance	6/1/2030	7/31/2030	6	52	20	2030	Generator Sets	Generator Sets	1	15.0	14	0.7	Diesel	Fleet Avg	0.53	4.27	2.84	0.01	-	0.17	0.17	-	0.15	0.15	568.32	0.02	0.00
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	2030	Aerial Lifts	Aerial Lifts	2	15.0	46	0.3	Diesel	Fleet Avg	0.15	2.86	3.07	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	2030	Cranes	Cranes	2	15.0	367	0.3	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	2030	Excavators	Excavators	2	15.0	36	0.4	Diesel	Fleet Avg	0.33	3.30	4.19	0.01	-	0.07	0.07	-	0.06	0.06	588.07	0.02	0.00
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	2030	Pumps	Pumps	2	15.0	11	0.7	Diesel	Fleet Avg	0.56	4.25	2.97	0.01	-	0.17	0.17	-	0.15	0.15	568.35	0.02	0.00
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	2030	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.4	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.01	0.02	0.00
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 4

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Daily Emissions (lb/day) ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Fill	3/1/2029	12/31/2032	7	1402	20	2029	Aerial Lifts	Aerial Lifts	1	15.0	46	0.3	Diesel	Fleet Avg	0.07	1.35	1.45	0.00	-	0.01	0.01	-	0.01	0.01	276.8	0.01	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Fill	3/1/2029	12/31/2032	7	1402	20	2029	Air Compressors	Air Compressors	1	15.0	37	0.5	Diesel	Fleet Avg	0.26	1.99	2.78	0.00	-	0.03	0.03	-	0.03	0.03	333.8	0.01	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Fill	3/1/2029	12/31/2032	7	1402	20	2029	Rollers	Rollers	1	15.0	36	0.4	Diesel	Fleet Avg	0.22	1.57	1.85	0.00	-	0.06	0.06	-	0.05	0.05	265.6	0.01	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Slabs, Walkways, Plenum	9/3/2032	8/31/2034	7	728	20	2032	Aerial Lifts	Aerial Lifts	2	15.0	46	0.3	Diesel	Fleet Avg	0.14	2.69	2.89	0.01	-	0.02	0.02	-	0.02	0.02	553.5	0.02	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Slabs, Walkways, Plenum	9/3/2032	8/31/2034	7	728	20	2032	Cement and Mortar Mixers	Cement and Mortar Mixers	2	15.0	10	0.6	Diesel	Fleet Avg	0.20	1.55	1.21	0.00	-	0.06	0.06	-	0.06	0.06	211.2	0.01	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	2034	Aerial Lifts	Aerial Lifts	2	15.0	46	0.3	Diesel	Fleet Avg	0.13	2.68	2.88	0.01	-	0.01	0.01	-	0.01	0.01	553.5	0.02	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	2034	Air Compressors	Air Compressors	2	15.0	37	0.5	Diesel	Fleet Avg	0.45	3.80	5.50	0.01	-	0.03	0.03	-	0.03	0.03	667.7	0.03	0.01
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	2034	Generator Sets	Generator Sets	2	15.0	14	0.7	Diesel	Fleet Avg	0.36	2.91	1.95	0.01	-	0.11	0.11	-	0.10	0.10	389.4	0.02	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	2034	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.13	0.66	9.40	0.01	-	0.03	0.03	-	0.03	0.03	1342.8	0.05	0.01
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	2029	Air Compressors	Air Compressors	1	15.0	37	0.5	Diesel	Fleet Avg	0.26	1.99	2.78	0.00	-	0.03	0.03	-	0.03	0.03	333.8	0.01	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	2029	Concrete/Industrial Saws	Concrete/Industrial Saws	2	15.0	33	0.7	Diesel	Fleet Avg	0.57	5.25	6.78	0.01	-	0.08	0.08	-	0.07	0.07	915.3	0.04	0.01
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	1	15.0	96	0.4	Diesel	Tier 4 Final	0.06	0.33	4.70	0.01	-	0.01	0.01	-	0.01	0.01	671.4	0.03	0.01
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	2029	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.4	Diesel	Tier 4 Final	0.16	4.76	6.43	0.01	-	0.02	0.02	-	0.02	0.02	919.1	0.04	0.01
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.0	0.04	0.01
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	2030	Aerial Lifts	Aerial Lifts	4	15.0	46	0.3	Diesel	Fleet Avg	0.28	5.39	5.79	0.01	-	0.04	0.04	-	0.03	0.03	1107.1	0.04	0.01
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	2030	Bore/Drill Rigs	Bore/Drill Rigs	4	15.0	83	0.5	Diesel	Tier 4 Final	0.27	1.43	20.31	0.03	-	0.05	0.05	-	0.05	0.05	2872.8	0.12	0.02
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	2030	Cranes	Cranes	4	15.0	367	0.3	Diesel	Tier 4 Final	0.70	3.66	36.60	0.07	-	0.14	0.14	-	0.14	0.14	7427.9	0.30	0.06
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	2030	Pumps	Pumps	4	15.0	11	0.7	Diesel	Fleet Avg	0.60	4.57	3.20	0.01	-	0.18	0.18	-	0.16	0.16	612.0	0.02	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	2030	Rollers	Rollers	4	15.0	36	0.4	Diesel	Fleet Avg	0.84	6.26	7.36	0.01	-	0.21	0.21	-	0.20	0.20	1062.4	0.04	0.01
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	4	15.0	96	0.4	Diesel	Tier 4 Final	0.25	1.32	18.79	0.02	-	0.05	0.05	-	0.05	0.05	2685.6	0.11	0.02
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	2030	Aerial Lifts	Aerial Lifts	4	15.0	46	0.3	Diesel	Fleet Avg	0.28	5.39	5.79	0.01	-	0.04	0.04	-	0.03	0.03	1107.1	0.04	0.01
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	2030	Cranes	Cranes	4	15.0	367	0.3	Diesel	Tier 4 Final	0.70	3.66	36.60	0.07	-	0.14	0.14	-	0.14	0.14	7427.9	0.30	0.06
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	2030	Pumps	Pumps	4	15.0	11	0.7	Diesel	Fleet Avg	0.60	4.57	3.20	0.01	-	0.18	0.18	-	0.16	0.16	612.0	0.02	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	4	15.0	96	0.4	Diesel	Tier 4 Final	0.25	1.32	18.79	0.02	-	0.05	0.05	-	0.05	0.05	2685.6	0.11	0.02
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	2032	Aerial Lifts	Aerial Lifts	4	15.0	46	0.3	Diesel	Fleet Avg	0.27	5.38	5.78	0.01	-	0.03	0.03	-	0.03	0.03	1107.1	0.04	0.01
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	2032	Cranes	Cranes	4	15.0	367	0.3	Diesel	Tier 4 Final	0.70	3.66	36.60	0.07	-	0.14	0.14	-	0.14	0.14	7427.9	0.30	0.06
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	2032	Pumps	Pumps	4	15.0	11	0.7	Diesel	Fleet Avg	0.60	4.56	3.20	0.01	-	0.18	0.18	-	0.16	0.16	611.9	0.02	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	2032	Rough Terrain Forklifts	Rough Terrain Forklifts	4	15.0	96	0.4	Diesel	Tier 4 Final	0.25	1.32	18.79	0.02	-	0.05	0.05	-	0.05	0.05	2685.6	0.11	0.02
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	11/20/2030	1/15/2031	6	49	20	2030	Aerial Lifts	Aerial Lifts	4	15.0	46	0.3	Diesel	Fleet Avg	0.28	5.39	5.79	0.01	-	0.04	0.04	-	0.03	0.03	1107.1	0.04	0.01
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	11/20/2030	1/15/2031	6	49	20	2030	Cranes	Cranes	4	15.0	367	0.3	Diesel	Tier 4 Final	0.70	3.66	36.60	0.07	-	0.14	0.14	-	0.14	0.14	7427.9	0.30	0.06
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	11/20/2030	1/15/2031	6	49	20	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.13	0.66	9.40	0.01	-	0.03	0.03	-	0.03	0.03	1342.8	0.05	0.01
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	2031	Aerial Lifts	Aerial Lifts	2	15.0	46	0.3	Diesel	Fleet Avg	0.14	2.69	2.89	0.01	-	0.02	0.02	-	0.02	0.02	553.5	0.02	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	2031	Cranes	Cranes	4	15.0	367	0.3	Diesel	Tier 4 Final	0.70	3.66	36.60	0.07	-	0.14	0.14	-	0.14	0.14	7427.9	0.30	0.06
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	2031	Excavators	Excavators	2	15.0	36	0.4	Diesel	Fleet Avg	0.28	2.97	3.77	0.00	-	0.05	0.05	-	0.05	0.05	532.1	0.02	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	2031	Other Construction Equipment	Other Construction Equipme	2	15.0	82	0.4	Diesel	Tier 4 Final	0.11	0.59	8.43	0.01	-	0.02	0.02	-	0.02	0.02	1200.1	0.05	0.01
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	1/5/2034	2/3/2034	6	26	20	2034	Aerial Lifts	Aerial Lifts	4	15.0	46	0.3	Diesel	Fleet Avg	0.26	5.37	5.77	0.01	-	0.03	0.03	-	0.03	0.03	1107.1	0.04	0.01
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	1/5/2034	2/3/2034	6	26	20	2034	Cranes	Cranes	4	15.0	367	0.3	Diesel	Tier 4 Final	0.70	3.66	36.60	0.07	-	0.14	0.14	-	0.14	0.14	7427.9	0.30	0.06
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	1/5/2034	2/3/2034	6	26	20	2034	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.13	0.66	9.40	0.01	-	0.03	0.03	-	0.03	0.03	1342.8	0.05	0.01
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	2034	Aerial Lifts	Aerial Lifts	2	15.0	46	0.3	Diesel	Fleet Avg	0.13	2.68	2.88	0.01	-	0.01	0.01	-	0.01	0.01	553.5	0.02	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	2034	Air Compressors	Air Compressors	4	15.0	37	0.5	Diesel	Fleet Avg	0.91	7.60	10.99	0.02	-	0.06	0.06	-	0.06	0.06	1335.3	0.05	0.01
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	2034	Generator Sets	Generator Sets	2	15.0	14	0.7	Diesel	Fleet Avg	0.36	2.91	1.95	0.01	-	0.11	0.11	-	0.10	0.10	389.4	0.02	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	2034	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.4	Diesel	Tier 4 Final	0.16	4.76	6.43	0.01	-	0.02	0.02	-	0.02	0.02	919.1	0.04	0.01
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	2034	Welders	Welders	3	15.0	46	0.5	Diesel	Fleet Avg	0.69	6.50	8.94	0.02	-	0.05	0.05	-	0.05	0.05	1167.1	0.05	0.01
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	2034	Air Compressors	Air Compressors	2	15.0	37	0.5	Diesel	Fleet Avg	0.45	3.80	5.50	0.01	-	0.03	0.03	-	0.03	0.03	667.7	0.03	0.01
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	2034	Generator Sets	Generator Sets	2	15.0	14	0.7	Diesel	Fleet Avg	0.36	2.91	1.95	0.01	-	0.11	0.11	-	0.10	0.10	389.4	0.02	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	2034	Cranes	Cranes	2	15.0	367	0.3	Diesel	Tier 4 Final	0.35	1.83	18.30	0.03	-	0.07	0.07	-	0.07	0.07	3713.9	0.15	0.03
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	2034	Welders	Welders	3	15.0	46	0.5	Diesel	Fleet Avg	0.69	6.50	8.94	0.02	-	0.05	0.05	-	0.05	0.05	1167.1	0.05	0.01
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	8/18/2032	8/15/2033	6	311	20	2032	Pavers	Pavers	2	15.0	81	0.4	Diesel	Tier 4 Final	0.11	0.59	8.33	0.01	-	0.02	0.02	-	0.02	0.02	1183.2	0.05	0.01
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	8/18/2032	8/15/2033	6	311	20	2032	Paving Equipment	Paving Equipment	2	15.0	89	0.4	Diesel	Tier 4 Final	0.11	0.55	7.84	0.01	-	0.02	0.02	-	0.02	0.02	1118.1	0.05	0.01
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	8/18/2032	8/15/2033	6	311	20	2032	Rollers	Rollers	2	15.0	36	0.4	Diesel	Fleet Avg	0.38	3.09	3.62	0.00	-	0.09	0.09	-	0.09	0.09	531.2	0.02	0.00
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Air Compressors	Air Compressors	1	7.5	37	0.5	Diesel	Fleet Avg	0.12	0.98	1.38	0.00	-	0.01	0.01	-	0.01	0.01	166.9	0.01	0.00
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Concrete/Industrial Saws	Concrete/Industrial Saws	2	7.5	33	0.7	Diesel	Fleet Avg	0.27	2.59	3.38	0.01	-	0.03	0.03	-	0.03	0.03	457.3	0.02	0.00
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	1	7.5	96	0.4	Diesel	Tier 4 Final	0.03	0.17	2.35	0.00	-	0.01	0.01	-	0.01	0.01	335.7	0.01	0.00
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Skid Steer Loaders	Skid Steer Loaders	2	7.5	71	0.4	Diesel	Tier 4 Final	0.08	2.38	3.21	0.00	-	0.01	0.01	-	0.01	0.01	459.6	0.02	0.00
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	7.5	84	0.4	Diesel	Tier 4 Final	0.05	0.27	3.80	0.01	-	0.01	0.01	-	0.01	0.01	544.0	0.02	0.00
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	2030	Cranes	Cranes	1	7.5	367	0.3	Diesel	Tier 4 Final	0.09	0.46	4.58	0.01	-	0.02	0.02	-	0.02	0.02	928.5	0.04	0.01
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	1	7.5	96	0.4	Diesel	Tier 4 Final	0.03	0.17	2.35	0.00	-	0.01	0.01	-	0.01	0.01	335.7	0.01	0.00
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	2030	Skid Steer Loaders	Skid Steer Loaders	1	7.5	71	0.4	Diesel	Tier 4 Final	0.04	1.19	1.61	0.00	-	0.00	0.00	-	0.00	0.00	229.8	0.01	0.00
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	1	7.5	84	0.4	Diesel	Tier 4 Final	0.03	0.13	1.90	0.00	-	0.01	0.01	-	0.01	0.01	272.0	0.01	0.00
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	2030	Welders	Welders	1	7.5	46	0.5	Diesel	Fleet Avg	0.13	1.12	1.50	0.00	-	0.02	0.02	-	0.01	0.01	194.5	0.01	0.00
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Air Compressors	Air Compressors	1	15.0	37	0.5	Diesel	Fleet Avg	0.28	2.08	2.81	0.00	-	0.05	0.05	-	0.04	0.04	333.8	0.01	0.00
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Concrete/Industrial Saws	Concrete/Industrial Saws	2	15.0	33	0.7	Diesel	Fleet Avg	0.62	5.46	6.84	0.01	-	0.11	0.11	-	0.10	0.10	915.1	0.04	0.01
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Rough Terrain Forklifts	Rough Terrain Forklifts	1	15.0	96	0.4	Diesel	Tier 4 Final	0.06	0.33	4.70	0.01	-	0.01	0.01	-	0.01	0.01	671.4	0.03	0.01
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.4	Diesel	Tier 4 Final	0.16	4.76	6.43	0.01	-	0.02	0.02	-	0.02	0.02	918.5	0.04	0.01
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.7	0.04	0.01
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Bore/Drill Rigs	Bore/Drill Rigs	2	15.0	83	0.5	Diesel	Tier 4 Final	0.14	0.71	10.16	0.01	-	0.03	0.03	-	0.03	0.03	1437.3	0.06	0.01
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Cranes	Cranes	2	15.0	367	0.3	Diesel	Tier 4 Final	0.35	1.83	18.30	0.03	-	0.07	0.07	-	0.07	0.07	3714.9	0.15	0.03
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Pumps	Pumps	2	15.0	11	0.7	Diesel	Fleet Avg	0.30	2.30	1.60	0.00	-	0.09	0.09	-	0.08	0.08	306.0	0.01	0.00
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.13	0.66	9.40	0.01	-	0.03	0.03	-	0.03	0.03	1342.5	0.05	0.01
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.6	0.04	0.01
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	2029	Aerial Lifts	Aerial Lifts	2	15.0	46	0.3	Diesel	Fleet Avg	0.14	2.70	2.90	0.01	-	0.02	0.02	-	0.02	0.02	553.5	0.02	0.00
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	2029	Cranes	Cranes	2	15.0	367	0.3	Diesel	Tier 4 Final	0.35	1.83	18.30	0.03	-	0.07	0.07	-	0.07	0.07	3713.9	0.15	0.03
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	2029	Excavators	Excavators	2	15.0	36	0.4	Diesel	Fleet Avg	0.32	3.00	3.82	0.00	-	0.07	0.07	-	0.06	0.06	532.1	0.02	0.00
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.0	0.04	0.01
Metro E Line Stn_U-Alt4-TBM Pass Through-Maintenance	6/1/2030	7/31/2030	6	52	20	2030	Cranes	Cranes	1	15.0	367	0.3	Diesel	Tier 4 Final	0.18	0.92	9.15	0.02	-	0.04	0.04	-	0.04	0.04	1857.0	0.08	0.02
Metro E Line Stn_U-Alt4-TBM Pass Through-Maintenance	6/1/2030	7/31/2030	6	52	20	2030	Generator Sets	Generator Sets	1	15.0	14	0.7	Diesel	Fleet Avg	0.18	1.46	0.97	0.00	-	0.06	0.06	-	0.05	0.05	194.7	0.01	0.00
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	2030	Aerial Lifts	Aerial Lifts	2	15.0	46	0.3	Diesel	Fleet Avg	0.14	2.70	2.89	0.01	-	0.02	0.02	-	0.02	0.02	553.5	0.02	0.00
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	2030	Cranes	Cranes	2	15.0	367	0.3	Diesel	Tier 4 Final	0.35	1.83	18.30	0.03	-	0.07	0.07	-	0.07	0.07	3713.9	0.15	0.03
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	2030	Excavators	Excavators	2	15.0	36	0.4	Diesel	Fleet Avg	0.30	2.98	3.79	0.00	-	0.06	0.06	-	0.06	0.06	532.1	0.02	0.00
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	2030	Pumps	Pumps	2	15.0	11	0.7	Diesel	Fleet Avg	0.30	2.29	1.60	0.00	-	0.09	0.09	-	0.08	0.08	306.0	0.01	0.00
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	2030	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.4	Diesel	Tier 4 Final	0.16	4.76	6.43	0.01	-	0.02	0.02	-	0.02	0.02	919.1	0.04	0.01
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.0	0.04	0.01

Sepulveda Transit Corridor Project - ALTERNATIVE 4

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Total Emissions (tons) ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	Total Emissions (metric tons) CO_2	CH_4	N_2O	CO_2e
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Fill	3/1/2029	12/31/2032	7	1402	20	2029	Aerial Lifts	Aerial Lifts	1	15.0	46	0.3	Diesel	Fleet Avg	0.05	0.95	1.02	0.00	-	0.01	0.01	-	0.01	0.01	176.0	0.01	0.00	176.6
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Fill	3/1/2029	12/31/2032	7	1402	20	2029	Air Compressors	Air Compressors	1	15.0	37	0.5	Diesel	Fleet Avg	0.18	1.39	1.95	0.00	-	0.02	0.02	-	0.02	0.02	212.3	0.01	0.00	213.0
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Fill	3/1/2029	12/31/2032	7	1402	20	2029	Rollers	Rollers	1	15.0	36	0.4	Diesel	Fleet Avg	0.16	1.10	1.30	0.00	-	0.04	0.04	-	0.04	0.04	168.9	0.01	0.00	169.5
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Slabs, Walkways, Plenum	9/3/2032	8/31/2034	7	728	20	2032	Aerial Lifts	Aerial Lifts	2	15.0	46	0.3	Diesel	Fleet Avg	0.05	0.98	1.05	0.00	-	0.01	0.01	-	0.01	0.01	182.8	0.01	0.00	183.4
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Slabs, Walkways, Plenum	9/3/2032	8/31/2034	7	728	20	2032	Cement and Mortar Mixers	Cement and Mortar Mixers	2	15.0	10	0.6	Diesel	Fleet Avg	0.07	0.57	0.44	0.00	-	0.02	0.02	-	0.02	0.02	69.7	0.00	0.00	70.0
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	2034	Aerial Lifts	Aerial Lifts	2	15.0	46	0.3	Diesel	Fleet Avg	0.02	0.44	0.47	0.00	-	0.00	0.00	-	0.00	0.00	82.6	0.00	0.00	82.9
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	2034	Air Compressors	Air Compressors	2	15.0	37	0.5	Diesel	Fleet Avg	0.07	0.62	0.90	0.00	-	0.01	0.01	-	0.00	0.00	99.6	0.00	0.00	100.0
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	2034	Generator Sets	Generator Sets	2	15.0	14	0.7	Diesel	Fleet Avg	0.06	0.48	0.32	0.00	-	0.02	0.02	-	0.02	0.02	58.1	0.00	0.00	58.3
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	2034	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.02	0.11	1.55	0.00	-	0.00	0.00	-	0.00	0.00	200.4	0.01	0.00	201.1
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	2029	Air Compressors	Air Compressors	1	15.0	37	0.5	Diesel	Fleet Avg	0.03	0.20	0.29	0.00	-	0.00	0.00	-	0.00	0.00	31.2	0.00	0.00	31.3
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	2029	Concrete/Industrial Saws	Concrete/Industrial Saws	2	15.0	33	0.7	Diesel	Fleet Avg	0.06	0.54	0.70	0.00	-	0.01	0.01	-	0.01	0.01	85.5	0.00	0.00	85.8
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	1	15.0	96	0.4	Diesel	Tier 4 Final	0.01	0.03	0.48	0.00	-	0.00	0.00	-	0.00	0.00	62.7	0.00	0.00	63.0
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	2029	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.4	Diesel	Tier 4 Final	0.02	0.49	0.66	0.00	-	0.00	0.00	-	0.00	0.00	85.9	0.00	0.00	86.2
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.01	0.06	0.78	0.00	-	0.00	0.00	-	0.00	0.00	101.7	0.00	0.00	102.0
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	2030	Aerial Lifts	Aerial Lifts	4	15.0	46	0.3	Diesel	Fleet Avg	0.03	0.64	0.69	0.00	-	0.00	0.00	-	0.00	0.00	119.0	0.00	0.00	119.4
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	2030	Bore/Drill Rigs	Bore/Drill Rigs	4	15.0	83	0.5	Diesel	Tier 4 Final	0.03	0.17	2.41	0.00	-	0.01	0.01	-	0.01	0.01	308.8	0.01	0.00	309.9
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	2030	Cranes	Cranes	4	15.0	367	0.3	Diesel	Tier 4 Final	0.08	0.43	4.34	0.01	-	0.02	0.02	-	0.02	0.02	798.5	0.03	0.01	801.2
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	2030	Pumps	Pumps	4	15.0	11	0.7	Diesel	Fleet Avg	0.07	0.54	0.38	0.00	-	0.02	0.02	-	0.02	0.02	65.8	0.00	0.00	66.0
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	2030	Rollers	Rollers	4	15.0	36	0.4	Diesel	Fleet Avg	0.10	0.74	0.87	0.00	-	0.03	0.03	-	0.02	0.02	114.2	0.00	0.00	114.6
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	4	15.0	96	0.4	Diesel	Tier 4 Final	0.03	0.16	2.23	0.00	-	0.01	0.01	-	0.01	0.01	288.7	0.01	0.00	289.7
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	2030	Aerial Lifts	Aerial Lifts	4	15.0	46	0.3	Diesel	Fleet Avg	0.12	2.33	2.50	0.00	-	0.02	0.02	-	0.01	0.01	433.4	0.02	0.00	434.8
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	2030	Cranes	Cranes	4	15.0	367	0.3	Diesel	Tier 4 Final	0.30	1.58	15.79	0.03	-	0.06	0.06	-	0.06	0.06	2907.6	0.12	0.02	2917.6
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	2030	Pumps	Pumps	4	15.0	11	0.7	Diesel	Fleet Avg	0.26	1.97	1.38	0.00	-	0.08	0.08	-	0.07	0.07	239.6	0.01	0.00	240.4
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	4	15.0	96	0.4	Diesel	Tier 4 Final	0.11	0.57	8.11	0.01	-	0.02	0.02	-	0.02	0.02	1051.3	0.04	0.01	1054.9
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	2032	Aerial Lifts	Aerial Lifts	4	15.0	46	0.3	Diesel	Fleet Avg	0.03	0.50	0.53	0.00	-	0.00	0.00	-	0.00	0.00	92.4	0.00	0.00	92.7
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	2032	Cranes	Cranes	4	15.0	367	0.3	Diesel	Tier 4 Final	0.06	0.34	3.37	0.01	-	0.01	0.01	-	0.01	0.01	619.9	0.03	0.01	622.1
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	2032	Pumps	Pumps	4	15.0	11	0.7	Diesel	Fleet Avg	0.06	0.42	0.29	0.00	-	0.02	0.02	-	0.01	0.01	51.1	0.00	0.00	51.2
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	2032	Rough Terrain Forklifts	Rough Terrain Forklifts	4	15.0	96	0.4	Diesel	Tier 4 Final	0.02	0.12	1.73	0.00	-	0.00	0.00	-	0.00	0.00	224.1	0.01	0.00	224.9
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	11/20/2030	1/15/2031	6	49	20	2030	Aerial Lifts	Aerial Lifts	4	15.0	46	0.3	Diesel	Fleet Avg	0.01	0.13	0.14	0.00	-	0.00	0.00	-	0.00	0.00	24.6	0.00	0.00	24.7
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	11/20/2030	1/15/2031	6	49	20	2030	Cranes	Cranes	4	15.0	367	0.3	Diesel	Tier 4 Final	0.02	0.09	0.90	0.00	-	0.00	0.00	-	0.00	0.00	165.1	0.01	0.00	165.7
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	11/20/2030	1/15/2031	6	49	20	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.00	0.02	0.23	0.00	-	0.00	0.00	-	0.00	0.00	29.8	0.00	0.00	29.9
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	2031	Aerial Lifts	Aerial Lifts	2	15.0	46	0.3	Diesel	Fleet Avg	0.06	1.25	1.34	0.00	-	0.01	0.01	-	0.01	0.01	233.5	0.01	0.00	234.3
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	2031	Cranes	Cranes	4	15.0	367	0.3	Diesel	Tier 4 Final	0.33	1.70	17.02	0.03	-	0.07	0.07	-	0.07	0.07	3133.4	0.13	0.03	3144.1
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	2031	Excavators	Excavators	2	15.0	36	0.4	Diesel	Fleet Avg	0.13	1.38	1.75	0.00	-	0.02	0.02	-	0.02	0.02	224.4	0.01	0.00	225.2
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	2031	Other Construction Equipment	Other Construction Equipme	2	15.0	82	0.4	Diesel	Tier 4 Final	0.05	0.28	3.92	0.01	-	0.01	0.01	-	0.01	0.01	506.3	0.02	0.00	508.0
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	1/5/2034	2/3/2034	6	26	20	2034	Aerial Lifts	Aerial Lifts	4	15.0	46	0.3	Diesel	Fleet Avg	0.00	0.07	0.07	0.00	-	0.00	0.00	-	0.00	0.00	13.1	0.00	0.00	13.1
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	1/5/2034	2/3/2034	6	26	20	2034	Cranes	Cranes	4	15.0	367	0.3	Diesel	Tier 4 Final	0.01	0.05	0.48	0.00	-	0.00	0.00	-	0.00	0.00	87.6	0.00	0.00	87.9
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	1/5/2034	2/3/2034	6	26	20	2034	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.00	0.01	0.12	0.00	-	0.00	0.00	-	0.00	0.00	15.8	0.00	0.00	15.9
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	2034	Aerial Lifts	Aerial Lifts	2	15.0	46	0.3	Diesel	Fleet Avg	0.02	0.31	0.34	0.00	-	0.00	0.00	-	0.00	0.00	58.8	0.00	0.00	59.0
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	2034	Air Compressors	Air Compressors	4	15.0	37	0.5	Diesel	Fleet Avg	0.11	0.89	1.29	0.00	-	0.01	0.01	-	0.01	0.01	141.7	0.01	0.00	142.2
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	2034	Generator Sets	Generator Sets	2	15.0	14	0.7	Diesel	Fleet Avg	0.04	0.34	0.23	0.00	-	0.01	0.01	-	0.01	0.01	41.3	0.00	0.00	41.5
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	2034	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.4	Diesel	Tier 4 Final	0.02	0.56	0.75	0.00	-	0.00	0.00	-	0.00	0.00	97.6	0.00	0.00	97.9
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	2034	Welders	Welders	3	15.0	46	0.5	Diesel	Fleet Avg	0.08	0.76	1.05	0.00	-	0.01	0.01	-	0.01	0.01	123.9	0.01	0.00	124.3
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	2034	Air Compressors	Air Compressors	2	15.0	37	0.5	Diesel	Fleet Avg	0.04	0.29	0.43	0.00	-	0.00	0.00	-	0.00	0.00	46.9	0.00	0.00	47.1
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	2034	Generator Sets	Generator Sets	2	15.0	14	0.7	Diesel	Fleet Avg	0.03	0.23	0.15	0.00	-	0.01	0.01	-	0.01	0.01	27.4	0.00	0.00	27.5
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	2034	Cranes	Cranes	2	15.0	367	0.3	Diesel	Tier 4 Final	0.03	0.14	1.42	0.00	-	0.01	0.01	-	0.01	0.01	261.1	0.01	0.00	262.0
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	2034	Welders	Welders	3	15.0	46	0.5	Diesel	Fleet Avg	0.05	0.50	0.69	0.00	-	0.00	0.00	-	0.00	0.00	82.1	0.00	0.00	82.3
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	8/18/2032	8/15/2033	6	311	20	2032	Pavers	Pavers	2	15.0	81	0.4	Diesel	Tier 4 Final	0.02	0.09	1.29	0.00	-	0.00	0.00	-	0.00	0.00	166.9	0.01	0.00	167.5
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	8/18/2032	8/15/2033	6	311	20	2032	Paving Equipment	Paving Equipment	2	15.0	89	0.4	Diesel	Tier 4 Final	0.02	0.09	1.22	0.00	-	0.00	0.00	-	0.00	0.00	157.7	0.01	0.00	158.3
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	8/18/2032	8/15/2033	6	311	20	2032	Rollers	Rollers	2	15.0	36	0.4	Diesel	Fleet Avg	0.06	0.48	0.56	0.00	-	0.01	0.01	-	0.01	0.01	74.9	0.00	0.00	75.2
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Air Compressors	Air Compressors	1	7.5	37	0.5	Diesel	Fleet Avg	0.00	0.03	0.04	0.00	-	0.00	0.00	-	0.00	0.00	4.2	0.00	0.00	4.3
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Concrete/Industrial Saws	Concrete/Industrial Saws	2	7.5	33	0.7	Diesel	Fleet Avg	0.01	0.07	0.09	0.00	-	0.00	0.00	-	0.00	0.00	11.6	0.00	0.00	11.7
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	1	7.5	96	0.4	Diesel	Tier 4 Final	0.00	0.00	0.07	0.00	-	0.00	0.00	-	0.00	0.00	8.5	0.00	0.00	8.6
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Skid Steer Loaders	Skid Steer Loaders	2	7.5	71	0.4	Diesel	Tier 4 Final	0.00	0.07	0.09	0.00	-	0.00	0.00	-	0.00	0.00	11.7	0.00	0.00	11.7
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	7.5	84	0.4	Diesel	Tier 4 Final	0.00	0.01	0.11	0.00	-	0.00	0.00	-	0.00	0.00	13.8	0.00	0.00	13.9
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	2030	Cranes	Cranes	1	7.5	367	0.3	Diesel	Tier 4 Final	0.07	0.34	3.42	0.01	-	0.01	0.01	-	0.01	0.01	628.8	0.03	0.01	630.9
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	1	7.5	96	0.4	Diesel	Tier 4 Final	0.02	0.12	1.75	0.00	-	0.00	0.00	-	0.00	0.00	227.3	0.01	0.00	228.1
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	2030	Skid Steer Loaders	Skid Steer Loaders	1	7.5	71	0.4	Diesel	Tier 4 Final	0.03	0.89	1.20	0.00	-	0.00	0.00	-	0.00	0.00	155.6	0.01	0.00	156.1
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	1	7.5	84	0.4	Diesel	Tier 4 Final	0.02	0.10	1.42	0.00	-	0.00	0.00	-	0.00	0.00	184.2	0.01	0.00	184.8
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	2030	Welders	Welders	1	7.5	46	0.5	Diesel	Fleet Avg	0.10	0.84	1.12	0.00	-	0.01	0.01	-	0.01	0.01	131.7	0.01	0.00	132.2
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Air Compressors	Air Compressors	1	15.0	37	0.5	Diesel	Fleet Avg	0.03	0.22	0.29	0.00	-	0.00	0.00	-	0.00	0.00	31.5	0.00	0.00	31.6
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Concrete/Industrial Saws	Concrete/Industrial Saws	2	15.0	33	0.7	Diesel	Fleet Avg	0.06	0.57	0.71	0.00	-	0.01	0.01	-	0.01	0.01	86.3	0.00	0.00	86.6
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Rough Terrain Forklifts	Rough Terrain Forklifts	1	15.0	96	0.4	Diesel	Tier 4 Final	0.01	0.03	0.49	0.00	-	0.00	0.00	-	0.00	0.00	63.3	0.00	0.00	63.6
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.4	Diesel	Tier 4 Final	0.02	0.50	0.67	0.00	-	0.00	0.00	-	0.00	0.00	86.7	0.00	0.00	87.0
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.01	0.06	0.79	0.00	-	0.00	0.00	-	0.00	0.00	102.7	0.00	0.00	103.1
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Bore/Drill Rigs	Bore/Drill Rigs	2	15.0	83	0.5	Diesel	Tier 4 Final	0.02	0.09	1.33	0.00	-	0.00	0.00	-	0.00	0.00	170.2	0.01	0.00	170.7
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Cranes	Cranes	2	15.0	367	0.3	Diesel	Tier 4 Final	0.05	0.24	2.39	0.00	-	0.01	0.01	-	0.01	0.01	439.8	0.02	0.00	441.3
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Pumps	Pumps	2	15.0	11	0.7	Diesel	Fleet Avg	0.04	0.30	0.21	0.00	-	0.01	0.01	-	0.01	0.01	36.2	0.00	0.00	36.3
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.02	0.09	1.23	0.00	-	0.00	0.00	-	0.00	0.00	158.9	0.01	0.00	159.5
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.01	0.07	0.99	0.00	-	0.00	0.00	-	0.00	0.00	128.9	0.01	0.00	129.3
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	2029	Aerial Lifts	Aerial Lifts	2	15.0	46	0.3	Diesel	Fleet Avg	0.02	0.42	0.45	0.00	-	0.00	0.00	-	0.00	0.00	78.1	0.00	0.00	78.4
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	2029	Cranes	Cranes	2	15.0	367	0.3	Diesel	Tier 4 Final	0.05	0.28	2.85	0.01	-	0.01	0.01	-	0.01	0.01	523.9	0.02	0.00	525.7
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	2029	Excavators	Excavators	2	15.0	36	0.4	Diesel	Fleet Avg	0.05	0.47	0.59	0.00	-	0.01	0.01	-	0.01	0.01	75.1	0.00	0.00	75.3
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.02	0.08	1.18	0.00	-	0.00	0.00	-	0.00	0.00	153.5	0.01	0.00	154.0
Metro E Line Stn_U-Alt4-TBM Pass Through-Maintenance	6/1/2030	7/31/2030	6	52	20	2030	Cranes	Cranes	1	15.0	367	0.3	Diesel	Tier 4 Final	0.00	0.02	0.24	0.00	-	0.00	0.00	-	0.00	0.00	43.8	0.00	0.00	44.0
Metro E Line Stn_U-Alt4-TBM Pass Through-Maintenance	6/1/2030	7/31/2030	6	52	20	2030	Generator Sets	Generator Sets	1	15.0	14	0.7	Diesel	Fleet Avg	0.00	0.04	0.03	0.00	-	0.00	0.00	-	0.00	0.00	4.6	0.00	0.00	4.6
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	2030	Aerial Lifts	Aerial Lifts	2	15.0	46	0.3	Diesel	Fleet Avg	0.04	0.84	0.90	0.00	-	0.01	0.01	-	0.01	0.01	156.9	0.01	0.00	157.5
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	2030	Cranes	Cranes	2	15.0	367	0.3	Diesel	Tier 4 Final	0.11	0.57	5.72	0.01	-	0.02	0.02	-	0.02	0.02	1052.9	0.04	0.01	1056.5
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	2030	Excavators	Excavators	2	15.0	36	0.4	Diesel	Fleet Avg	0.09	0.93	1.18	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00	151.4
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	2030	Pumps	Pumps	2	15.0	11	0.7	Diesel	Fleet Avg	0.09	0.71	0.50	0.00	-	0.03	0.03	-	0.03	0.03	86.7	0.00	0.00	87.0
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	2030	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.4	Diesel	Tier 4 Final	0.05	1.49	2.01	0.00	-	0.01	0.01	-	0.01	0.01	260.6	0.01	0.00	261.5
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.03	0.17	2.38	0.00	-	0.01	0.01	-	0.01	0.01	308.4	0.01	0.00	309.5

Sepulveda Transit Corridor Project - ALTERNATIVE 4

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Emission Factor (g/bhp-hr)[3] ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	2031	Aerial Lifts	Aerial Lifts	2	15.0	46	0.3	Diesel	Fleet Avg	0.15	2.85	3.07	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	2031	Cement and Mortar Mixers	Cement and Mortar Mixers	1	15.0	10	0.6	Diesel	Fleet Avg	0.55	4.19	3.25	0.01	-	0.16	0.16	-	0.15	0.15	570.20	0.02	0.00
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	2031	Generator Sets	Generator Sets	2	15.0	14	0.7	Diesel	Fleet Avg	0.53	4.26	2.84	0.01	-	0.17	0.17	-	0.15	0.15	568.31	0.02	0.00
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	2031	Pumps	Pumps	1	15.0	11	0.7	Diesel	Fleet Avg	0.56	4.24	2.97	0.01	-	0.17	0.17	-	0.15	0.15	568.32	0.02	0.00
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	2031	Welders	Welders	2	15.0	46	0.5	Diesel	Fleet Avg	0.36	3.24	4.37	0.01	-	0.04	0.04	-	0.04	0.04	568.30	0.02	0.00
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	2034	Aerial Lifts	Aerial Lifts	1	15.0	46	0.3	Diesel	Fleet Avg	0.14	2.85	3.06	0.01	-	0.02	0.02	-	0.01	0.01	586.90	0.02	0.00
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	2034	Air Compressors	Air Compressors	1	15.0	37	0.5	Diesel	Fleet Avg	0.39	3.23	4.68	0.01	-	0.03	0.03	-	0.02	0.02	568.40	0.02	0.00
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	2034	Pavers	Pavers	1	15.0	81	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	525.86	0.02	0.00
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	2034	Paving Equipment	Paving Equipment	1	15.0	89	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	2034	Rollers	Rollers	1	15.0	36	0.4	Diesel	Fleet Avg	0.37	3.36	3.94	0.01	-	0.09	0.09	-	0.08	0.08	587.11	0.02	0.00
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	2028	Air Compressors	Air Compressors	1	15.0	37	0.5	Diesel	Fleet Avg	0.46	3.44	4.76	0.01	-	0.07	0.07	-	0.06	0.06	568.34	0.02	0.00
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	2028	Concrete/Industrial Saws	Concrete/Industrial Saws	2	15.0	33	0.7	Diesel	Fleet Avg	0.37	3.34	4.27	0.01	-	0.06	0.06	-	0.05	0.05	574.38	0.02	0.00
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	2028	Rough Terrain Forklifts	Rough Terrain Forklifts	1	15.0	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.60	0.02	0.00
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	2028	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.4	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.61	0.02	0.00
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.57	0.02	0.00
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	2029	Bore/Drill Rigs	Bore/Drill Rigs	2	15.0	83	0.5	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.33	0.02	0.00
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	2029	Cranes	Cranes	2	15.0	367	0.3	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	2029	Pumps	Pumps	2	15.0	11	0.7	Diesel	Fleet Avg	0.56	4.26	2.98	0.01	-	0.17	0.17	-	0.15	0.15	568.32	0.02	0.00
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	2029	Aerial Lifts	Aerial Lifts	2	15.0	46	0.3	Diesel	Fleet Avg	0.15	2.86	3.07	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	2029	Cranes	Cranes	2	15.0	367	0.3	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	2029	Excavators	Excavators	2	15.0	36	0.4	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Santa Monica Stn_U-Alt4-TBM Pass Through-Maintenance	1/1/2031	2/28/2031	6	51	20	2031	Cranes	Cranes	1	15.0	367	0.3	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Santa Monica Stn_U-Alt4-TBM Pass Through-Maintenance	1/1/2031	2/28/2031	6	51	20	2031	Generator Sets	Generator Sets	1	15.0	14	0.7	Diesel	Fleet Avg	0.53	4.26	2.84	0.01	-	0.17	0.17	-	0.15	0.15	568.31	0.02	0.00
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	2030	Aerial Lifts	Aerial Lifts	2	15.0	46	0.3	Diesel	Fleet Avg	0.15	2.86	3.07	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	2030	Cranes	Cranes	2	15.0	367	0.3	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	2030	Excavators	Excavators	2	15.0	36	0.4	Diesel	Fleet Avg	0.33	3.30	4.19	0.01	-	0.07	0.07	-	0.06	0.06	588.07	0.02	0.00
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	2030	Pumps	Pumps	2	15.0	11	0.7	Diesel	Fleet Avg	0.56	4.25	2.97	0.01	-	0.17	0.17	-	0.15	0.15	568.35	0.02	0.00
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	2030	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.4	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.01	0.02	0.00
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	2032	Aerial Lifts	Aerial Lifts	2	15.0	46	0.3	Diesel	Fleet Avg	0.15	2.85	3.06	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	2032	Cement and Mortar Mixers	Cement and Mortar Mixers	1	15.0	10	0.6	Diesel	Fleet Avg	0.55	4.19	3.25	0.01	-	0.16	0.16	-	0.15	0.15	570.11	0.02	0.00
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	2032	Generator Sets	Generator Sets	2	15.0	14	0.7	Diesel	Fleet Avg	0.53	4.26	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	2032	Pumps	Pumps	1	15.0	11	0.7	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.33	0.02	0.00
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	2032	Welders	Welders	2	15.0	46	0.5	Diesel	Fleet Avg	0.35	3.21	4.36	0.01	-	0.03	0.03	-	0.03	0.03	568.31	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	2029	Air Compressors	Air Compressors	1	15.0	37	0.5	Diesel	Fleet Avg	0.44	3.38	4.73	0.01	-	0.05	0.05	-	0.05	0.05	568.31	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	2029	Concrete/Industrial Saws	Concrete/Industrial Saws	2	15.0	33	0.7	Diesel	Fleet Avg	0.35	3.29	4.26	0.01	-	0.05	0.05	-	0.04	0.04	574.49	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	1	15.0	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	2029	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.4	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.01	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	2029	Bore/Drill Rigs	Bore/Drill Rigs	2	15.0	83	0.5	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.33	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	2029	Cranes	Cranes	2	15.0	367	0.3	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	2029	Pumps	Pumps	2	15.0	11	0.7	Diesel	Fleet Avg	0.56	4.26	2.98	0.01	-	0.17	0.17	-	0.15	0.15	568.32	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	2030	Aerial Lifts	Aerial Lifts	2	15.0	46	0.3	Diesel	Fleet Avg	0.15	2.86	3.07	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	2030	Cranes	Cranes	2	15.0	367	0.3	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	2030	Excavators	Excavators	2	15.0	36	0.4	Diesel	Fleet Avg	0.33	3.30	4.19	0.01	-	0.07	0.07	-	0.06	0.06	588.07	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt4-TBM Pass Through-Maintenance	8/1/2031	9/30/2031	6	52	20	2031	Cranes	Cranes	1	15.0	367	0.3	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt4-TBM Pass Through-Maintenance	8/1/2031	9/30/2031	6	52	20	2031	Generator Sets	Generator Sets	1	15.0	14	0.7	Diesel	Fleet Avg	0.53	4.26	2.84	0.01	-	0.17	0.17	-	0.15	0.15	568.31	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	2031	Aerial Lifts	Aerial Lifts	2	15.0	46	0.3	Diesel	Fleet Avg	0.15	2.85	3.07	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	2031	Cranes	Cranes	2	15.0	367	0.3	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	2031	Excavators	Excavators	2	15.0	36	0.4	Diesel	Fleet Avg	0.31	3.28	4.17	0.01	-	0.06	0.06	-	0.05	0.05	588.07	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	2031	Pumps	Pumps	2	15.0	11	0.7	Diesel	Fleet Avg	0.56	4.24	2.97	0.01	-	0.17	0.17	-	0.15	0.15	568.32	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	2031	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.4	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.02	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	2031	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	2032	Aerial Lifts	Aerial Lifts	2	15.0	46	0.3	Diesel	Fleet Avg	0.15	2.85	3.06	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	2032	Cement and Mortar Mixers	Cement and Mortar Mixers	1	15.0	10	0.6	Diesel	Fleet Avg	0.55	4.19	3.25	0.01	-	0.16	0.16	-	0.15	0.15	570.11	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	2032	Generator Sets	Generator Sets	2	15.0	14	0.7	Diesel	Fleet Avg	0.53	4.26	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	2032	Pumps	Pumps	1	15.0	11	0.7	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.33	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	2032	Welders	Welders	2	15.0	46	0.5	Diesel	Fleet Avg	0.35	3.21	4.36	0.01	-	0.03	0.03	-	0.03	0.03	568.31	0.02	0.00
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	2028	Air Compressors	Air Compressors	1	15.0	37	0.5	Diesel	Fleet Avg	0.46	3.44	4.76	0.01	-	0.07	0.07	-	0.06	0.06	568.34	0.02	0.00
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	2028	Concrete/Industrial Saws	Concrete/Industrial Saws	2	15.0	33	0.7	Diesel	Fleet Avg	0.37	3.34	4.27	0.01	-	0.06	0.06	-	0.05	0.05	574.38	0.02	0.00
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	2028	Rough Terrain Forklifts	Rough Terrain Forklifts	1	15.0	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.60	0.02	0.00
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	2028	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.4	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.61	0.02	0.00
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.57	0.02	0.00
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	2029	Bore/Drill Rigs	Bore/Drill Rigs	2	15.0	83	0.5	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.33	0.02	0.00
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	2029	Cranes	Cranes	2	15.0	367	0.3	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	2029	Pumps	Pumps	2	15.0	11	0.7	Diesel	Fleet Avg	0.56	4.26	2.98	0.01	-	0.17	0.17	-	0.15	0.15	568.32	0.02	0.00
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 4

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Daily Emissions (lb/day) ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	2031	Aerial Lifts	Aerial Lifts	2	15.0	46	0.3	Diesel	Fleet Avg	0.14	2.69	2.89	0.01	-	0.02	0.02	-	0.02	0.02	553.5	0.02	0.00
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	2031	Cement and Mortar Mixers	Cement and Mortar Mixers	1	15.0	10	0.6	Diesel	Fleet Avg	0.10	0.78	0.60	0.00	-	0.03	0.03	-	0.03	0.03	105.6	0.00	0.00
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	2031	Generator Sets	Generator Sets	2	15.0	14	0.7	Diesel	Fleet Avg	0.36	2.92	1.95	0.01	-	0.11	0.11	-	0.10	0.10	389.4	0.02	0.00
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	2031	Pumps	Pumps	1	15.0	11	0.7	Diesel	Fleet Avg	0.15	1.14	0.80	0.00	-	0.04	0.04	-	0.04	0.04	153.0	0.01	0.00
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	2031	Welders	Welders	2	15.0	46	0.5	Diesel	Fleet Avg	0.49	4.44	5.99	0.01	-	0.05	0.05	-	0.05	0.05	778.0	0.03	0.01
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	2034	Aerial Lifts	Aerial Lifts	1	15.0	46	0.3	Diesel	Fleet Avg	0.07	1.34	1.44	0.00	-	0.01	0.01	-	0.01	0.01	276.8	0.01	0.00
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	2034	Air Compressors	Air Compressors	1	15.0	37	0.5	Diesel	Fleet Avg	0.23	1.90	2.75	0.00	-	0.02	0.02	-	0.01	0.01	333.8	0.01	0.00
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	2034	Pavers	Pavers	1	15.0	81	0.4	Diesel	Tier 4 Final	0.06	0.29	4.16	0.01	-	0.01	0.01	-	0.01	0.01	591.6	0.02	0.00
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	2034	Paving Equipment	Paving Equipment	1	15.0	89	0.4	Diesel	Tier 4 Final	0.05	0.28	3.92	0.01	-	0.01	0.01	-	0.01	0.01	559.0	0.02	0.00
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	2034	Rollers	Rollers	1	15.0	36	0.4	Diesel	Fleet Avg	0.17	1.52	1.78	0.00	-	0.04	0.04	-	0.04	0.04	265.6	0.01	0.00
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	2028	Air Compressors	Air Compressors	1	15.0	37	0.5	Diesel	Fleet Avg	0.27	2.02	2.80	0.00	-	0.04	0.04	-	0.04	0.04	333.8	0.01	0.00
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	2028	Concrete/Industrial Saws	Concrete/Industrial Saws	2	15.0	33	0.7	Diesel	Fleet Avg	0.59	5.33	6.81	0.01	-	0.09	0.09	-	0.08	0.08	915.1	0.04	0.01
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	2028	Rough Terrain Forklifts	Rough Terrain Forklifts	1	15.0	96	0.4	Diesel	Tier 4 Final	0.06	0.33	4.70	0.01	-	0.01	0.01	-	0.01	0.01	671.3	0.03	0.01
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	2028	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.4	Diesel	Tier 4 Final	0.16	4.76	6.43	0.01	-	0.02	0.02	-	0.02	0.02	918.4	0.04	0.01
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.6	0.04	0.01
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	2029	Bore/Drill Rigs	Bore/Drill Rigs	2	15.0	83	0.5	Diesel	Tier 4 Final	0.14	0.71	10.16	0.01	-	0.03	0.03	-	0.03	0.03	1436.4	0.06	0.01
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	2029	Cranes	Cranes	2	15.0	367	0.3	Diesel	Tier 4 Final	0.35	1.83	18.30	0.03	-	0.07	0.07	-	0.07	0.07	3713.9	0.15	0.03
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	2029	Pumps	Pumps	2	15.0	11	0.7	Diesel	Fleet Avg	0.30	2.29	1.60	0.00	-	0.09	0.09	-	0.08	0.08	306.0	0.01	0.00
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.13	0.66	9.40	0.01	-	0.03	0.03	-	0.03	0.03	1342.8	0.05	0.01
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.0	0.04	0.01
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	2029	Aerial Lifts	Aerial Lifts	2	15.0	46	0.3	Diesel	Fleet Avg	0.14	2.70	2.90	0.01	-	0.02	0.02	-	0.02	0.02	553.5	0.02	0.00
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	2029	Cranes	Cranes	2	15.0	367	0.3	Diesel	Tier 4 Final	0.35	1.83	18.30	0.03	-	0.07	0.07	-	0.07	0.07	3713.9	0.15	0.03
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	2029	Excavators	Excavators	2	15.0	36	0.4	Diesel	Fleet Avg	0.32	3.00	3.82	0.00	-	0.07	0.07	-	0.06	0.06	532.1	0.02	0.00
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.0	0.04	0.01
Santa Monica Stn_U-Alt4-TBM Pass Through-Maintenance	1/1/2031	2/28/2031	6	51	20	2031	Cranes	Cranes	1	15.0	367	0.3	Diesel	Tier 4 Final	0.18	0.92	9.15	0.02	-	0.04	0.04	-	0.04	0.04	1857.0	0.08	0.02
Santa Monica Stn_U-Alt4-TBM Pass Through-Maintenance	1/1/2031	2/28/2031	6	51	20	2031	Generator Sets	Generator Sets	1	15.0	14	0.7	Diesel	Fleet Avg	0.18	1.46	0.97	0.00	-	0.06	0.06	-	0.05	0.05	194.7	0.01	0.00
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	2030	Aerial Lifts	Aerial Lifts	2	15.0	46	0.3	Diesel	Fleet Avg	0.14	2.70	2.89	0.01	-	0.02	0.02	-	0.02	0.02	553.5	0.02	0.00
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	2030	Cranes	Cranes	2	15.0	367	0.3	Diesel	Tier 4 Final	0.35	1.83	18.30	0.03	-	0.07	0.07	-	0.07	0.07	3713.9	0.15	0.03
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	2030	Excavators	Excavators	2	15.0	36	0.4	Diesel	Fleet Avg	0.30	2.98	3.79	0.00	-	0.06	0.06	-	0.06	0.06	532.1	0.02	0.00
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	2030	Pumps	Pumps	2	15.0	11	0.7	Diesel	Fleet Avg	0.30	2.29	1.60	0.00	-	0.09	0.09	-	0.08	0.08	306.0	0.01	0.00
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	2030	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.4	Diesel	Tier 4 Final	0.16	4.76	6.43	0.01	-	0.02	0.02	-	0.02	0.02	919.1	0.04	0.01
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.0	0.04	0.01
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	2032	Aerial Lifts	Aerial Lifts	2	15.0	46	0.3	Diesel	Fleet Avg	0.14	2.69	2.89	0.01	-	0.02	0.02	-	0.02	0.02	553.5	0.02	0.00
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	2032	Cement and Mortar Mixers	Cement and Mortar Mixers	1	15.0	10	0.6	Diesel	Fleet Avg	0.10	0.78	0.60	0.00	-	0.03	0.03	-	0.03	0.03	105.6	0.00	0.00
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	2032	Generator Sets	Generator Sets	2	15.0	14	0.7	Diesel	Fleet Avg	0.36	2.92	1.95	0.01	-	0.11	0.11	-	0.10	0.10	389.4	0.02	0.00
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	2032	Pumps	Pumps	1	15.0	11	0.7	Diesel	Fleet Avg	0.15	1.14	0.80	0.00	-	0.04	0.04	-	0.04	0.04	153.0	0.01	0.00
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	2032	Welders	Welders	2	15.0	46	0.5	Diesel	Fleet Avg	0.48	4.40	5.97	0.01	-	0.05	0.05	-	0.04	0.04	778.1	0.03	0.01
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	2029	Air Compressors	Air Compressors	1	15.0	37	0.5	Diesel	Fleet Avg	0.26	1.99	2.78	0.00	-	0.03	0.03	-	0.03	0.03	333.8	0.01	0.00
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	2029	Concrete/Industrial Saws	Concrete/Industrial Saws	2	15.0	33	0.7	Diesel	Fleet Avg	0.57	5.25	6.78	0.01	-	0.08	0.08	-	0.07	0.07	915.3	0.04	0.01
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	1	15.0	96	0.4	Diesel	Tier 4 Final	0.06	0.33	4.70	0.01	-	0.01	0.01	-	0.01	0.01	671.4	0.03	0.01
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	2029	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.4	Diesel	Tier 4 Final	0.16	4.76	6.43	0.01	-	0.02	0.02	-	0.02	0.02	919.1	0.04	0.01
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.0	0.04	0.01
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	2029	Bore/Drill Rigs	Bore/Drill Rigs	2	15.0	83	0.5	Diesel	Tier 4 Final	0.14	0.71	10.16	0.01	-	0.03	0.03	-	0.03	0.03	1436.4	0.06	0.01
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	2029	Cranes	Cranes	2	15.0	367	0.3	Diesel	Tier 4 Final	0.35	1.83	18.30	0.03	-	0.07	0.07	-	0.07	0.07	3713.9	0.15	0.03
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	2029	Pumps	Pumps	2	15.0	11	0.7	Diesel	Fleet Avg	0.30	2.29	1.60	0.00	-	0.09	0.09	-	0.08	0.08	306.0	0.01	0.00
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.13	0.66	9.40	0.01	-	0.03	0.03	-	0.03	0.03	1342.8	0.05	0.01
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.0	0.04	0.01
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	2030	Aerial Lifts	Aerial Lifts	2	15.0	46	0.3	Diesel	Fleet Avg	0.14	2.70	2.89	0.01	-	0.02	0.02	-	0.02	0.02	553.5	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	2030	Cranes	Cranes	2	15.0	367	0.3	Diesel	Tier 4 Final	0.35	1.83	18.30	0.03	-	0.07	0.07	-	0.07	0.07	3713.9	0.15	0.03
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	2030	Excavators	Excavators	2	15.0	36	0.4	Diesel	Fleet Avg	0.30	2.98	3.79	0.00	-	0.06	0.06	-	0.06	0.06	532.1	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.0	0.04	0.01
D Line Wilshire-Westwood Stn_U-Alt4-TBM Pass Through-Maintenance	8/1/2031	9/30/2031	6	52	20	2031	Cranes	Cranes	1	15.0	367	0.3	Diesel	Tier 4 Final	0.18	0.92	9.15	0.02	-	0.04	0.04	-	0.04	0.04	1857.0	0.08	0.02
D Line Wilshire-Westwood Stn_U-Alt4-TBM Pass Through-Maintenance	8/1/2031	9/30/2031	6	52	20	2031	Generator Sets	Generator Sets	1	15.0	14	0.7	Diesel	Fleet Avg	0.18	1.46	0.97	0.00	-	0.06	0.06	-	0.05	0.05	194.7	0.01	0.00
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	2031	Aerial Lifts	Aerial Lifts	2	15.0	46	0.3	Diesel	Fleet Avg	0.14	2.69	2.89	0.01	-	0.02	0.02	-	0.02	0.02	553.5	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	2031	Cranes	Cranes	2	15.0	367	0.3	Diesel	Tier 4 Final	0.35	1.83	18.30	0.03	-	0.07	0.07	-	0.07	0.07	3713.9	0.15	0.03
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	2031	Excavators	Excavators	2	15.0	36	0.4	Diesel	Fleet Avg	0.28	2.97	3.77	0.00	-	0.05	0.05	-	0.05	0.05	532.1	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	2031	Pumps	Pumps	2	15.0	11	0.7	Diesel	Fleet Avg	0.30	2.28	1.60	0.00	-	0.09	0.09	-	0.08	0.08	306.0	0.01	0.00
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	2031	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.4	Diesel	Tier 4 Final	0.16	4.76	6.43	0.01	-	0.02	0.02	-	0.02	0.02	919.2	0.04	0.01
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	2031	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.0	0.04	0.01
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	2032	Aerial Lifts	Aerial Lifts	2	15.0	46	0.3	Diesel	Fleet Avg	0.14	2.69	2.89	0.01	-	0.02	0.02	-	0.02	0.02	553.5	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	2032	Cement and Mortar Mixers	Cement and Mortar Mixers	1	15.0	10	0.6	Diesel	Fleet Avg	0.10	0.78	0.60	0.00	-	0.03	0.03	-	0.03	0.03	105.6	0.00	0.00
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	2032	Generator Sets	Generator Sets	2	15.0	14	0.7	Diesel	Fleet Avg	0.36	2.92	1.95	0.01	-	0.11	0.11	-	0.10	0.10	389.4	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	2032	Pumps	Pumps	1	15.0	11	0.7	Diesel	Fleet Avg	0.15	1.14	0.80	0.00	-	0.04	0.04	-	0.04	0.04	153.0	0.01	0.00
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	2032	Welders	Welders	2	15.0	46	0.5	Diesel	Fleet Avg	0.48	4.40	5.97	0.01	-	0.05	0.05	-	0.04	0.04	778.1	0.03	0.01
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	2028	Air Compressors	Air Compressors	1	15.0	37	0.5	Diesel	Fleet Avg	0.27	2.02	2.80	0.00	-	0.04	0.04	-	0.04	0.04	333.8	0.01	0.00
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	2028	Concrete/Industrial Saws	Concrete/Industrial Saws	2	15.0	33	0.7	Diesel	Fleet Avg	0.59	5.33	6.81	0.01	-	0.09	0.09	-	0.08	0.08	915.1	0.04	0.01
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	2028	Rough Terrain Forklifts	Rough Terrain Forklifts	1	15.0	96	0.4	Diesel	Tier 4 Final	0.06	0.33	4.70	0.01	-	0.01	0.01	-	0.01	0.01	671.3	0.03	0.01
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	2028	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.4	Diesel	Tier 4 Final	0.16	4.76	6.43	0.01	-	0.02	0.02	-	0.02	0.02	918.4	0.04	0.01
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.6	0.04	0.01
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	2029	Bore/Drill Rigs	Bore/Drill Rigs	2	15.0	83	0.5	Diesel	Tier 4 Final	0.14	0.71	10.16	0.01	-	0.03	0.03	-	0.03	0.03	1436.4	0.06	0.01
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	2029	Cranes	Cranes	2	15.0	367	0.3	Diesel	Tier 4 Final	0.35	1.83	18.30	0.03	-	0.07	0.07	-	0.07	0.07	3713.9	0.15	0.03
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	2029	Pumps	Pumps	2	15.0	11	0.7	Diesel	Fleet Avg	0.30	2.29	1.60	0.00	-	0.09	0.09	-	0.08	0.08	306.0	0.01	0.00
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.13	0.66	9.40	0.01	-	0.03	0.03	-	0.03	0.03	1342.8	0.05	0.01
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.0	0.04	0.01

Sepulveda Transit Corridor Project - ALTERNATIVE 4

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Total Emissions (tons) ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	Total Emissions (metric tons) CO_2	CH_4	N_2O	CO_2e
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	2031	Aerial Lifts	Aerial Lifts	2	15.0	46	0.3	Diesel	Fleet Avg	0.05	1.06	1.13	0.00	-	0.01	0.01	-	0.01	0.01	196.8	0.01	0.00	197.5
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	2031	Cement and Mortar Mixers	Cement and Mortar Mixers	1	15.0	10	0.6	Diesel	Fleet Avg	0.04	0.30	0.24	0.00	-	0.01	0.01	-	0.01	0.01	37.6	0.00	0.00	37.7
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	2031	Generator Sets	Generator Sets	2	15.0	14	0.7	Diesel	Fleet Avg	0.14	1.14	0.76	0.00	-	0.04	0.04	-	0.04	0.04	138.5	0.01	0.00	139.0
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	2031	Pumps	Pumps	1	15.0	11	0.7	Diesel	Fleet Avg	0.06	0.45	0.31	0.00	-	0.02	0.02	-	0.02	0.02	54.4	0.00	0.00	54.6
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	2031	Welders	Welders	2	15.0	46	0.5	Diesel	Fleet Avg	0.19	1.74	2.35	0.00	-	0.02	0.02	-	0.02	0.02	276.7	0.01	0.00	277.6
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	2034	Aerial Lifts	Aerial Lifts	1	15.0	46	0.3	Diesel	Fleet Avg	0.00	0.03	0.04	0.00	-	0.00	0.00	-	0.00	0.00	6.2	0.00	0.00	6.2
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	2034	Air Compressors	Air Compressors	1	15.0	37	0.5	Diesel	Fleet Avg	0.01	0.05	0.07	0.00	-	0.00	0.00	-	0.00	0.00	7.4	0.00	0.00	7.4
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	2034	Pavers	Pavers	1	15.0	81	0.4	Diesel	Tier 4 Final	0.00	0.01	0.10	0.00	-	0.00	0.00	-	0.00	0.00	13.1	0.00	0.00	13.2
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	2034	Paving Equipment	Paving Equipment	1	15.0	89	0.4	Diesel	Tier 4 Final	0.00	0.01	0.10	0.00	-	0.00	0.00	-	0.00	0.00	12.4	0.00	0.00	12.5
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	2034	Rollers	Rollers	1	15.0	36	0.4	Diesel	Fleet Avg	0.00	0.04	0.04	0.00	-	0.00	0.00	-	0.00	0.00	5.9	0.00	0.00	5.9
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	2028	Air Compressors	Air Compressors	1	15.0	37	0.5	Diesel	Fleet Avg	0.03	0.21	0.29	0.00	-	0.00	0.00	-	0.00	0.00	31.2	0.00	0.00	31.3
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	2028	Concrete/Industrial Saws	Concrete/Industrial Saws	2	15.0	33	0.7	Diesel	Fleet Avg	0.06	0.55	0.70	0.00	-	0.01	0.01	-	0.01	0.01	85.5	0.00	0.00	85.8
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	2028	Rough Terrain Forklifts	Rough Terrain Forklifts	1	15.0	96	0.4	Diesel	Tier 4 Final	0.01	0.03	0.48	0.00	-	0.00	0.00	-	0.00	0.00	62.7	0.00	0.00	62.9
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	2028	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.4	Diesel	Tier 4 Final	0.02	0.49	0.66	0.00	-	0.00	0.00	-	0.00	0.00	85.8	0.00	0.00	86.1
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.01	0.06	0.78	0.00	-	0.00	0.00	-	0.00	0.00	101.7	0.00	0.00	102.1
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	2029	Bore/Drill Rigs	Bore/Drill Rigs	2	15.0	83	0.5	Diesel	Tier 4 Final	0.02	0.09	1.35	0.00	-	0.00	0.00	-	0.00	0.00	172.7	0.01	0.00	173.3
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	2029	Cranes	Cranes	2	15.0	367	0.3	Diesel	Tier 4 Final	0.05	0.24	2.42	0.00	-	0.01	0.01	-	0.01	0.01	446.4	0.02	0.00	448.0
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	2029	Pumps	Pumps	2	15.0	11	0.7	Diesel	Fleet Avg	0.04	0.30	0.21	0.00	-	0.01	0.01	-	0.01	0.01	36.8	0.00	0.00	36.9
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.02	0.09	1.25	0.00	-	0.00	0.00	-	0.00	0.00	161.4	0.01	0.00	162.0
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.01	0.07	1.01	0.00	-	0.00	0.00	-	0.00	0.00	130.8	0.01	0.00	131.2
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	2029	Aerial Lifts	Aerial Lifts	2	15.0	46	0.3	Diesel	Fleet Avg	0.02	0.42	0.45	0.00	-	0.00	0.00	-	0.00	0.00	78.6	0.00	0.00	78.9
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	2029	Cranes	Cranes	2	15.0	367	0.3	Diesel	Tier 4 Final	0.06	0.29	2.86	0.01	-	0.01	0.01	-	0.01	0.01	527.3	0.02	0.00	529.1
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	2029	Excavators	Excavators	2	15.0	36	0.4	Diesel	Fleet Avg	0.05	0.47	0.60	0.00	-	0.01	0.01	-	0.01	0.01	75.5	0.00	0.00	75.8
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.02	0.08	1.19	0.00	-	0.00	0.00	-	0.00	0.00	154.5	0.01	0.00	155.0
Santa Monica Stn_U-Alt4-TBM Pass Through-Maintenance	1/1/2031	2/28/2031	6	51	20	2031	Cranes	Cranes	1	15.0	367	0.3	Diesel	Tier 4 Final	0.00	0.02	0.23	0.00	-	0.00	0.00	-	0.00	0.00	43.0	0.00	0.00	43.1
Santa Monica Stn_U-Alt4-TBM Pass Through-Maintenance	1/1/2031	2/28/2031	6	51	20	2031	Generator Sets	Generator Sets	1	15.0	14	0.7	Diesel	Fleet Avg	0.00	0.04	0.02	0.00	-	0.00	0.00	-	0.00	0.00	4.5	0.00	0.00	4.5
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	2030	Aerial Lifts	Aerial Lifts	2	15.0	46	0.3	Diesel	Fleet Avg	0.04	0.84	0.90	0.00	-	0.01	0.01	-	0.01	0.01	155.7	0.01	0.00	156.2
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	2030	Cranes	Cranes	2	15.0	367	0.3	Diesel	Tier 4 Final	0.11	0.57	5.67	0.01	-	0.02	0.02	-	0.02	0.02	1044.5	0.04	0.01	1048.0
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	2030	Excavators	Excavators	2	15.0	36	0.4	Diesel	Fleet Avg	0.09	0.92	1.18	0.00	-	0.02	0.02	-	0.02	0.02	149.6	0.01	0.00	150.1
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	2030	Pumps	Pumps	2	15.0	11	0.7	Diesel	Fleet Avg	0.09	0.71	0.50	0.00	-	0.03	0.03	-	0.03	0.03	86.1	0.00	0.00	86.3
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	2030	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.4	Diesel	Tier 4 Final	0.05	1.48	1.99	0.00	-	0.01	0.01	-	0.01	0.01	258.5	0.01	0.00	259.4
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.03	0.17	2.36	0.00	-	0.01	0.01	-	0.01	0.01	306.0	0.01	0.00	307.0
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	2032	Aerial Lifts	Aerial Lifts	2	15.0	46	0.3	Diesel	Fleet Avg	0.05	1.04	1.12	0.00	-	0.01	0.01	-	0.01	0.01	194.6	0.01	0.00	195.3
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	2032	Cement and Mortar Mixers	Cement and Mortar Mixers	1	15.0	10	0.6	Diesel	Fleet Avg	0.04	0.30	0.23	0.00	-	0.01	0.01	-	0.01	0.01	37.1	0.00	0.00	37.2
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	2032	Generator Sets	Generator Sets	2	15.0	14	0.7	Diesel	Fleet Avg	0.14	1.13	0.75	0.00	-	0.04	0.04	-	0.04	0.04	136.9	0.01	0.00	137.4
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	2032	Pumps	Pumps	1	15.0	11	0.7	Diesel	Fleet Avg	0.06	0.44	0.31	0.00	-	0.02	0.02	-	0.02	0.02	53.8	0.00	0.00	54.0
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	2032	Welders	Welders	2	15.0	46	0.5	Diesel	Fleet Avg	0.19	1.70	2.31	0.00	-	0.02	0.02	-	0.02	0.02	273.5	0.01	0.00	274.5
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	2029	Air Compressors	Air Compressors	1	15.0	37	0.5	Diesel	Fleet Avg	0.03	0.21	0.29	0.00	-	0.00	0.00	-	0.00	0.00	31.5	0.00	0.00	31.6
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	2029	Concrete/Industrial Saws	Concrete/Industrial Saws	2	15.0	33	0.7	Diesel	Fleet Avg	0.06	0.55	0.71	0.00	-	0.01	0.01	-	0.01	0.01	86.4	0.00	0.00	86.7
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	1	15.0	96	0.4	Diesel	Tier 4 Final	0.01	0.03	0.49	0.00	-	0.00	0.00	-	0.00	0.00	63.3	0.00	0.00	63.6
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	2029	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.4	Diesel	Tier 4 Final	0.02	0.50	0.67	0.00	-	0.00	0.00	-	0.00	0.00	86.7	0.00	0.00	87.0
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.01	0.06	0.79	0.00	-	0.00	0.00	-	0.00	0.00	102.6	0.00	0.00	103.0
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	2029	Bore/Drill Rigs	Bore/Drill Rigs	2	15.0	83	0.5	Diesel	Tier 4 Final	0.02	0.09	1.34	0.00	-	0.00	0.00	-	0.00	0.00	171.4	0.01	0.00	171.9
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	2029	Cranes	Cranes	2	15.0	367	0.3	Diesel	Tier 4 Final	0.05	0.24	2.41	0.00	-	0.01	0.01	-	0.01	0.01	443.1	0.02	0.00	444.6
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	2029	Pumps	Pumps	2	15.0	11	0.7	Diesel	Fleet Avg	0.04	0.30	0.21	0.00	-	0.01	0.01	-	0.01	0.01	36.5	0.00	0.00	36.6
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.02	0.09	1.24	0.00	-	0.00	0.00	-	0.00	0.00	160.2	0.01	0.00	160.7
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.01	0.07	1.00	0.00	-	0.00	0.00	-	0.00	0.00	129.8	0.01	0.00	130.2
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	2030	Aerial Lifts	Aerial Lifts	2	15.0	46	0.3	Diesel	Fleet Avg	0.02	0.42	0.45	0.00	-	0.00	0.00	-	0.00	0.00	78.6	0.00	0.00	78.9
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	2030	Cranes	Cranes	2	15.0	367	0.3	Diesel	Tier 4 Final	0.06	0.29	2.86	0.01	-	0.01	0.01	-	0.01	0.01	527.3	0.02	0.00	529.1
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	2030	Excavators	Excavators	2	15.0	36	0.4	Diesel	Fleet Avg	0.05	0.47	0.59	0.00	-	0.01	0.01	-	0.01	0.01	75.5	0.00	0.00	75.8
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.02	0.08	1.19	0.00	-	0.00	0.00	-	0.00	0.00	154.5	0.01	0.00	155.0
D Line Wilshire-Westwood Stn_U-Alt4-TBM Pass Through-Maintenance	8/1/2031	9/30/2031	6	52	20	2031	Cranes	Cranes	1	15.0	367	0.3	Diesel	Tier 4 Final	0.00	0.02	0.24	0.00	-	0.00	0.00	-	0.00	0.00	43.8	0.00	0.00	44.0
D Line Wilshire-Westwood Stn_U-Alt4-TBM Pass Through-Maintenance	8/1/2031	9/30/2031	6	52	20	2031	Generator Sets	Generator Sets	1	15.0	14	0.7	Diesel	Fleet Avg	0.00	0.04	0.03	0.00	-	0.00	0.00	-	0.00	0.00	4.6	0.00	0.00	4.6
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	2031	Aerial Lifts	Aerial Lifts	2	15.0	46	0.3	Diesel	Fleet Avg	0.04	0.73	0.79	0.00	-	0.00	0.00	-	0.00	0.00	136.6	0.01	0.00	137.1
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	2031	Cranes	Cranes	2	15.0	367	0.3	Diesel	Tier 4 Final	0.10	0.50	4.98	0.01	-	0.02	0.02	-	0.02	0.02	916.4	0.04	0.01	919.6
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	2031	Excavators	Excavators	2	15.0	36	0.4	Diesel	Fleet Avg	0.08	0.81	1.03	0.00	-	0.01	0.01	-	0.01	0.01	131.3	0.01	0.00	131.7
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	2031	Pumps	Pumps	2	15.0	11	0.7	Diesel	Fleet Avg	0.08	0.62	0.44	0.00	-	0.02	0.02	-	0.02	0.02	75.5	0.00	0.00	75.8
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	2031	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.4	Diesel	Tier 4 Final	0.04	1.29	1.75	0.00	-	0.00	0.00	-	0.00	0.00	226.8	0.01	0.00	227.6
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	2031	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.03	0.15	2.07	0.00	-	0.01	0.01	-	0.01	0.01	268.5	0.01	0.00	269.4
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	2032	Aerial Lifts	Aerial Lifts	2	15.0	46	0.3	Diesel	Fleet Avg	0.05	1.06	1.14	0.00	-	0.01	0.01	-	0.01	0.01	197.3	0.01	0.00	198.0
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	2032	Cement and Mortar Mixers	Cement and Mortar Mixers	1	15.0	10	0.6	Diesel	Fleet Avg	0.04	0.31	0.24	0.00	-	0.01	0.01	-	0.01	0.01	37.6	0.00	0.00	37.8
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	2032	Generator Sets	Generator Sets	2	15.0	14	0.7	Diesel	Fleet Avg	0.14	1.15	0.76	0.00	-	0.04	0.04	-	0.04	0.04	138.8	0.01	0.00	139.3
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	2032	Pumps	Pumps	1	15.0	11	0.7	Diesel	Fleet Avg	0.06	0.45	0.31	0.00	-	0.02	0.02	-	0.02	0.02	54.5	0.00	0.00	54.7
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	2032	Welders	Welders	2	15.0	46	0.5	Diesel	Fleet Avg	0.19	1.73	2.35	0.00	-	0.02	0.02	-	0.02	0.02	277.4	0.01	0.00	278.3
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	2028	Air Compressors	Air Compressors	1	15.0	37	0.5	Diesel	Fleet Avg	0.03	0.21	0.29	0.00	-	0.00	0.00	-	0.00	0.00	31.2	0.00	0.00	31.3
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	2028	Concrete/Industrial Saws	Concrete/Industrial Saws	2	15.0	33	0.7	Diesel	Fleet Avg	0.06	0.55	0.70	0.00	-	0.01	0.01	-	0.01	0.01	85.5	0.00	0.00	85.8
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	2028	Rough Terrain Forklifts	Rough Terrain Forklifts	1	15.0	96	0.4	Diesel	Tier 4 Final	0.01	0.03	0.48	0.00	-	0.00	0.00	-	0.00	0.00	62.7	0.00	0.00	62.9
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	2028	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.4	Diesel	Tier 4 Final	0.02	0.49	0.66	0.00	-	0.00	0.00	-	0.00	0.00	85.8	0.00	0.00	86.1
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.01	0.06	0.78	0.00	-	0.00	0.00	-	0.00	0.00	101.7	0.00	0.00	102.1
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	2029	Bore/Drill Rigs	Bore/Drill Rigs	2	15.0	83	0.5	Diesel	Tier 4 Final	0.03	0.13	1.86	0.00	-	0.01	0.01	-	0.01	0.01	239.1	0.01	0.00	239.9
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	2029	Cranes	Cranes	2	15.0	367	0.3	Diesel	Tier 4 Final	0.06	0.34	3.36	0.01	-	0.01	0.01	-	0.01	0.01	618.3	0.03	0.01	620.4
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	2029	Pumps	Pumps	2	15.0	11	0.7	Diesel	Fleet Avg	0.06	0.42	0.29	0.00	-	0.02	0.02	-	0.02	0.02	50.9	0.00	0.00	51.1
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.02	0.12	1.72	0.00	-	0.00	0.00	-	0.00	0.00	223.5	0.01	0.00	224.3
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.02	0.10	1.40	0.00	-	0.00	0.00	-	0.00	0.00	181.1	0.01	0.00	181.7

Sepulveda Transit Corridor Project - ALTERNATIVE 4

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Emission Factor (g/bhp-hr)[3] ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	2029	Aerial Lifts	Aerial Lifts	2	15.0	46	0.3	Diesel	Fleet Avg	0.15	2.86	3.07	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	2029	Cranes	Cranes	2	15.0	367	0.3	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	2029	Excavators	Excavators	2	15.0	36	0.4	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	2030	Aerial Lifts	Aerial Lifts	2	15.0	46	0.3	Diesel	Fleet Avg	0.15	2.86	3.07	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	2030	Cranes	Cranes	2	15.0	367	0.3	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	2030	Excavators	Excavators	2	15.0	36	0.4	Diesel	Fleet Avg	0.33	3.30	4.19	0.01	-	0.07	0.07	-	0.06	0.06	588.07	0.02	0.00
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	2030	Pumps	Pumps	2	15.0	11	0.7	Diesel	Fleet Avg	0.56	4.25	2.97	0.01	-	0.17	0.17	-	0.15	0.15	568.35	0.02	0.00
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	2030	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.4	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.01	0.02	0.00
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	2032	Aerial Lifts	Aerial Lifts	2	15.0	46	0.3	Diesel	Fleet Avg	0.15	2.85	3.06	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	2032	Cranes	Cranes	2	15.0	367	0.3	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	2032	Excavators	Excavators	2	15.0	36	0.4	Diesel	Fleet Avg	0.29	3.27	4.15	0.01	-	0.05	0.05	-	0.05	0.05	588.07	0.02	0.00
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	2032	Pumps	Pumps	2	15.0	11	0.7	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.33	0.02	0.00
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	2032	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.4	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.01	0.02	0.00
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	2032	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	2033	Aerial Lifts	Aerial Lifts	2	15.0	46	0.3	Diesel	Fleet Avg	0.14	2.85	3.06	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	2033	Cement and Mortar Mixers	Cement and Mortar Mixers	1	15.0	10	0.6	Diesel	Fleet Avg	0.55	4.19	3.25	0.01	-	0.16	0.16	-	0.15	0.15	570.13	0.02	0.00
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	2033	Generator Sets	Generator Sets	2	15.0	14	0.7	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.31	0.02	0.00
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	2033	Pumps	Pumps	1	15.0	11	0.7	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	2033	Welders	Welders	2	15.0	46	0.5	Diesel	Fleet Avg	0.34	3.19	4.35	0.01	-	0.03	0.03	-	0.03	0.03	568.31	0.02	0.00
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	2031	Air Compressors	Air Compressors	1	15.0	37	0.5	Diesel	Fleet Avg	0.41	3.31	4.70	0.01	-	0.04	0.04	-	0.04	0.04	568.34	0.02	0.00
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	2031	Concrete/Industrial Saws	Concrete/Industrial Saws	2	15.0	33	0.7	Diesel	Fleet Avg	0.33	3.22	4.23	0.01	-	0.04	0.04	-	0.03	0.03	573.27	0.02	0.00
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	2031	Rough Terrain Forklifts	Rough Terrain Forklifts	1	15.0	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	2031	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.4	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.02	0.02	0.00
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	2031	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	2032	Bore/Drill Rigs	Bore/Drill Rigs	2	15.0	83	0.5	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.33	0.02	0.00
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	2032	Cranes	Cranes	3	15.0	367	0.3	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	2032	Pumps	Pumps	3	15.0	11	0.7	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.33	0.02	0.00
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	2032	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	2032	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	2033	Aerial Lifts	Aerial Lifts	4	15.0	46	0.3	Diesel	Fleet Avg	0.14	2.85	3.06	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	2033	Cranes	Cranes	4	15.0	367	0.3	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	2033	Other Construction Equipment	Other Construction Equipme	2	15.0	82	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	526.88	0.02	0.00
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	2033	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	2033	Welders	Welders	2	15.0	46	0.5	Diesel	Fleet Avg	0.34	3.19	4.35	0.01	-	0.03	0.03	-	0.03	0.03	568.31	0.02	0.00
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	2033	Aerial Lifts	Aerial Lifts	4	15.0	46	0.3	Diesel	Fleet Avg	0.14	2.85	3.06	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	2033	Air Compressors	Air Compressors	4	15.0	37	0.5	Diesel	Fleet Avg	0.39	3.25	4.68	0.01	-	0.03	0.03	-	0.03	0.03	568.34	0.02	0.00
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	2033	Cranes	Cranes	4	15.0	367	0.3	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	2033	Other Construction Equipment	Other Construction Equipme	2	15.0	82	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	526.88	0.02	0.00
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	2033	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	2033	Welders	Welders	2	15.0	46	0.5	Diesel	Fleet Avg	0.34	3.19	4.35	0.01	-	0.03	0.03	-	0.03	0.03	568.31	0.02	0.00
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	2035	Aerial Lifts	Aerial Lifts	1	15.0	46	0.3	Diesel	Fleet Avg	0.14	2.84	3.05	0.01	-	0.02	0.02	-	0.01	0.01	586.90	0.02	0.00
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	2035	Air Compressors	Air Compressors	1	15.0	37	0.5	Diesel	Fleet Avg	0.38	3.22	4.68	0.01	-	0.02	0.02	-	0.02	0.02	568.38	0.02	0.00
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	2035	Pavers	Pavers	1	15.0	81	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	525.85	0.02	0.00
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	2035	Paving Equipment	Paving Equipment	1	15.0	89	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	2035	Rollers	Rollers	1	15.0	36	0.4	Diesel	Fleet Avg	0.36	3.32	3.92	0.01	-	0.08	0.08	-	0.07	0.07	587.11	0.02	0.00
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	2031	Air Compressors	Air Compressors	1	15.0	37	0.5	Diesel	Fleet Avg	0.41	3.31	4.70	0.01	-	0.04	0.04	-	0.04	0.04	568.34	0.02	0.00
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	2031	Concrete/Industrial Saws	Concrete/Industrial Saws	2	15.0	33	0.7	Diesel	Fleet Avg	0.33	3.22	4.23	0.01	-	0.04	0.04	-	0.03	0.03	573.27	0.02	0.00
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	2031	Rough Terrain Forklifts	Rough Terrain Forklifts	1	15.0	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	2031	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.4	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.02	0.02	0.00
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	2031	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	2031	Bore/Drill Rigs	Bore/Drill Rigs	2	15.0	83	0.5	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.33	0.02	0.00
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	2031	Cranes	Cranes	3	15.0	367	0.3	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	2031	Pumps	Pumps	3	15.0	11	0.7	Diesel	Fleet Avg	0.56	4.24	2.97	0.01	-	0.17	0.17	-	0.15	0.15	568.32	0.02	0.00
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	2031	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	2031	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	2032	Aerial Lifts	Aerial Lifts	4	15.0	46	0.3	Diesel	Fleet Avg	0.15	2.85	3.06	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	2032	Cranes	Cranes	4	15.0	367	0.3	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	2032	Other Construction Equipment	Other Construction Equipme	2	15.0	82	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	526.88	0.02	0.00
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	2032	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	2032	Welders	Welders	2	15.0	46	0.5	Diesel	Fleet Avg	0.35	3.21	4.36	0.01	-	0.03	0.03	-	0.03	0.03	568.31	0.02	0.00
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	2032	Aerial Lifts	Aerial Lifts	4	15.0	46	0.3	Diesel	Fleet Avg	0.15	2.85	3.06	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	2032	Air Compressors	Air Compressors	4	15.0	37	0.5	Diesel	Fleet Avg	0.40	3.28	4.69	0.01	-	0.03	0.03	-	0.03	0.03	568.28	0.02	0.00
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	2032	Cranes	Cranes	4	15.0	367	0.3	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	2032	Other Construction Equipment	Other Construction Equipme	2	15.0	82	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	526.88	0.02	0.00
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	2032	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	2032	Welders	Welders	2	15.0	46	0.5	Diesel	Fleet Avg	0.35	3.21	4.36	0.01	-	0.03	0.03	-	0.03	0.03	568.31	0.02	0.00
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	2030	Air Compressors	Air Compressors	1	15.0	37	0.5	Diesel	Fleet Avg	0.42	3.34	4.71	0.01	-	0.05	0.05	-	0.04	0.04	568.32	0.02	0.00
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	2030	Concrete/Industrial Saws	Concrete/Industrial Saws	2	15.0	33	0.7	Diesel	Fleet Avg	0.34	3.25	4.24	0.01	-	0.04	0.04	-	0.04	0.04	574.00	0.02	0.00
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	1	15.0	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	2030	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.4	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.01	0.02	0.00
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 4

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Daily Emissions (lb/day) ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	2029	Aerial Lifts	Aerial Lifts	2	15.0	46	0.3	Diesel	Fleet Avg	0.14	2.70	2.90	0.01	-	0.02	0.02	-	0.02	0.02	553.5	0.02	0.00
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	2029	Cranes	Cranes	2	15.0	367	0.3	Diesel	Tier 4 Final	0.35	1.83	18.30	0.03	-	0.07	0.07	-	0.07	0.07	3713.9	0.15	0.03
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	2029	Excavators	Excavators	2	15.0	36	0.4	Diesel	Fleet Avg	0.32	3.00	3.82	0.00	-	0.07	0.07	-	0.06	0.06	532.1	0.02	0.00
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.0	0.04	0.01
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	2030	Aerial Lifts	Aerial Lifts	2	15.0	46	0.3	Diesel	Fleet Avg	0.14	2.70	2.89	0.01	-	0.02	0.02	-	0.02	0.02	553.5	0.02	0.00
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	2030	Cranes	Cranes	2	15.0	367	0.3	Diesel	Tier 4 Final	0.35	1.83	18.30	0.03	-	0.07	0.07	-	0.07	0.07	3713.9	0.15	0.03
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	2030	Excavators	Excavators	2	15.0	36	0.4	Diesel	Fleet Avg	0.30	2.98	3.79	0.00	-	0.06	0.06	-	0.06	0.06	532.1	0.02	0.00
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	2030	Pumps	Pumps	2	15.0	11	0.7	Diesel	Fleet Avg	0.30	2.29	1.60	0.00	-	0.09	0.09	-	0.08	0.08	306.0	0.01	0.00
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	2030	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.4	Diesel	Tier 4 Final	0.16	4.76	6.43	0.01	-	0.02	0.02	-	0.02	0.02	919.1	0.04	0.01
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.0	0.04	0.01
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	2032	Aerial Lifts	Aerial Lifts	2	15.0	46	0.3	Diesel	Fleet Avg	0.14	2.69	2.89	0.01	-	0.02	0.02	-	0.02	0.02	553.5	0.02	0.00
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	2032	Cranes	Cranes	2	15.0	367	0.3	Diesel	Tier 4 Final	0.35	1.83	18.30	0.03	-	0.07	0.07	-	0.07	0.07	3713.9	0.15	0.03
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	2032	Excavators	Excavators	2	15.0	36	0.4	Diesel	Fleet Avg	0.26	2.96	3.75	0.00	-	0.04	0.04	-	0.04	0.04	532.1	0.02	0.00
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	2032	Pumps	Pumps	2	15.0	11	0.7	Diesel	Fleet Avg	0.30	2.28	1.60	0.00	-	0.09	0.09	-	0.08	0.08	306.0	0.01	0.00
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	2032	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.4	Diesel	Tier 4 Final	0.16	4.76	6.43	0.01	-	0.02	0.02	-	0.02	0.02	919.1	0.04	0.01
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	2032	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.0	0.04	0.01
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	2033	Aerial Lifts	Aerial Lifts	2	15.0	46	0.3	Diesel	Fleet Avg	0.14	2.69	2.89	0.01	-	0.02	0.02	-	0.01	0.01	553.5	0.02	0.00
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	2033	Cement and Mortar Mixers	Cement and Mortar Mixers	1	15.0	10	0.6	Diesel	Fleet Avg	0.10	0.78	0.60	0.00	-	0.03	0.03	-	0.03	0.03	105.6	0.00	0.00
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	2033	Generator Sets	Generator Sets	2	15.0	14	0.7	Diesel	Fleet Avg	0.36	2.91	1.95	0.01	-	0.11	0.11	-	0.10	0.10	389.4	0.02	0.00
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	2033	Pumps	Pumps	1	15.0	11	0.7	Diesel	Fleet Avg	0.15	1.14	0.80	0.00	-	0.04	0.04	-	0.04	0.04	153.0	0.01	0.00
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	2033	Welders	Welders	2	15.0	46	0.5	Diesel	Fleet Avg	0.47	4.36	5.96	0.01	-	0.04	0.04	-	0.04	0.04	778.1	0.03	0.01
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	2031	Air Compressors	Air Compressors	1	15.0	37	0.5	Diesel	Fleet Avg	0.24	1.94	2.76	0.00	-	0.02	0.02	-	0.02	0.02	333.8	0.01	0.00
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	2031	Concrete/Industrial Saws	Concrete/Industrial Saws	2	15.0	33	0.7	Diesel	Fleet Avg	0.53	5.13	6.74	0.01	-	0.06	0.06	-	0.05	0.05	913.4	0.04	0.01
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	2031	Rough Terrain Forklifts	Rough Terrain Forklifts	1	15.0	96	0.4	Diesel	Tier 4 Final	0.06	0.33	4.70	0.01	-	0.01	0.01	-	0.01	0.01	671.4	0.03	0.01
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	2031	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.4	Diesel	Tier 4 Final	0.16	4.76	6.43	0.01	-	0.02	0.02	-	0.02	0.02	919.2	0.04	0.01
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	2031	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.0	0.04	0.01
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	2032	Bore/Drill Rigs	Bore/Drill Rigs	2	15.0	83	0.5	Diesel	Tier 4 Final	0.14	0.71	10.16	0.01	-	0.03	0.03	-	0.03	0.03	1436.4	0.06	0.01
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	2032	Cranes	Cranes	3	15.0	367	0.3	Diesel	Tier 4 Final	0.53	2.75	27.45	0.05	-	0.11	0.11	-	0.11	0.11	5570.9	0.23	0.05
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	2032	Pumps	Pumps	3	15.0	11	0.7	Diesel	Fleet Avg	0.45	3.42	2.40	0.01	-	0.13	0.13	-	0.12	0.12	459.0	0.02	0.00
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	2032	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.13	0.66	9.40	0.01	-	0.03	0.03	-	0.03	0.03	1342.8	0.05	0.01
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	2032	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.0	0.04	0.01
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	2033	Aerial Lifts	Aerial Lifts	4	15.0	46	0.3	Diesel	Fleet Avg	0.27	5.38	5.78	0.01	-	0.03	0.03	-	0.03	0.03	1107.1	0.04	0.01
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	2033	Cranes	Cranes	4	15.0	367	0.3	Diesel	Tier 4 Final	0.70	3.66	36.60	0.07	-	0.14	0.14	-	0.14	0.14	7427.9	0.30	0.06
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	2033	Other Construction Equipment	Other Construction Equipme	2	15.0	82	0.4	Diesel	Tier 4 Final	0.11	0.59	8.43	0.01	-	0.02	0.02	-	0.02	0.02	1200.1	0.05	0.01
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	2033	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.13	0.66	9.40	0.01	-	0.03	0.03	-	0.03	0.03	1342.8	0.05	0.01
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	2033	Welders	Welders	2	15.0	46	0.5	Diesel	Fleet Avg	0.47	4.36	5.96	0.01	-	0.04	0.04	-	0.04	0.04	778.1	0.03	0.01
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	2033	Aerial Lifts	Aerial Lifts	4	15.0	46	0.3	Diesel	Fleet Avg	0.27	5.38	5.78	0.01	-	0.03	0.03	-	0.03	0.03	1107.1	0.04	0.01
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	2033	Air Compressors	Air Compressors	4	15.0	37	0.5	Diesel	Fleet Avg	0.91	7.64	10.99	0.02	-	0.07	0.07	-	0.06	0.06	1335.2	0.05	0.01
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	2033	Cranes	Cranes	4	15.0	367	0.3	Diesel	Tier 4 Final	0.70	3.66	36.60	0.07	-	0.14	0.14	-	0.14	0.14	7427.9	0.30	0.06
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	2033	Other Construction Equipment	Other Construction Equipme	2	15.0	82	0.4	Diesel	Tier 4 Final	0.11	0.59	8.43	0.01	-	0.02	0.02	-	0.02	0.02	1200.1	0.05	0.01
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	2033	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.13	0.66	9.40	0.01	-	0.03	0.03	-	0.03	0.03	1342.8	0.05	0.01
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	2033	Welders	Welders	2	15.0	46	0.5	Diesel	Fleet Avg	0.47	4.36	5.96	0.01	-	0.04	0.04	-	0.04	0.04	778.1	0.03	0.01
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	2035	Aerial Lifts	Aerial Lifts	1	15.0	46	0.3	Diesel	Fleet Avg	0.06	1.34	1.44	0.00	-	0.01	0.01	-	0.01	0.01	276.8	0.01	0.00
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	2035	Air Compressors	Air Compressors	1	15.0	37	0.5	Diesel	Fleet Avg	0.22	1.89	2.75	0.00	-	0.01	0.01	-	0.01	0.01	333.8	0.01	0.00
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	2035	Pavers	Pavers	1	15.0	81	0.4	Diesel	Tier 4 Final	0.06	0.29	4.16	0.01	-	0.01	0.01	-	0.01	0.01	591.6	0.02	0.00
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	2035	Paving Equipment	Paving Equipment	1	15.0	89	0.4	Diesel	Tier 4 Final	0.05	0.28	3.92	0.01	-	0.01	0.01	-	0.01	0.01	559.0	0.02	0.00
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	2035	Rollers	Rollers	1	15.0	36	0.4	Diesel	Fleet Avg	0.16	1.50	1.77	0.00	-	0.04	0.04	-	0.03	0.03	265.6	0.01	0.00
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	2031	Air Compressors	Air Compressors	1	15.0	37	0.5	Diesel	Fleet Avg	0.24	1.94	2.76	0.00	-	0.02	0.02	-	0.02	0.02	333.8	0.01	0.00
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	2031	Concrete/Industrial Saws	Concrete/Industrial Saws	2	15.0	33	0.7	Diesel	Fleet Avg	0.53	5.13	6.74	0.01	-	0.06	0.06	-	0.05	0.05	913.4	0.04	0.01
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	2031	Rough Terrain Forklifts	Rough Terrain Forklifts	1	15.0	96	0.4	Diesel	Tier 4 Final	0.06	0.33	4.70	0.01	-	0.01	0.01	-	0.01	0.01	671.4	0.03	0.01
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	2031	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.4	Diesel	Tier 4 Final	0.16	4.76	6.43	0.01	-	0.02	0.02	-	0.02	0.02	919.2	0.04	0.01
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	2031	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.0	0.04	0.01
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	2031	Bore/Drill Rigs	Bore/Drill Rigs	2	15.0	83	0.5	Diesel	Tier 4 Final	0.14	0.71	10.16	0.01	-	0.03	0.03	-	0.03	0.03	1436.4	0.06	0.01
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	2031	Cranes	Cranes	3	15.0	367	0.3	Diesel	Tier 4 Final	0.53	2.75	27.45	0.05	-	0.11	0.11	-	0.11	0.11	5570.9	0.23	0.05
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	2031	Pumps	Pumps	3	15.0	11	0.7	Diesel	Fleet Avg	0.45	3.42	2.40	0.01	-	0.13	0.13	-	0.12	0.12	459.0	0.02	0.00
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	2031	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.13	0.66	9.40	0.01	-	0.03	0.03	-	0.03	0.03	1342.8	0.05	0.01
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	2031	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.0	0.04	0.01
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	2032	Aerial Lifts	Aerial Lifts	4	15.0	46	0.3	Diesel	Fleet Avg	0.27	5.38	5.78	0.01	-	0.03	0.03	-	0.03	0.03	1107.1	0.04	0.01
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	2032	Cranes	Cranes	4	15.0	367	0.3	Diesel	Tier 4 Final	0.70	3.66	36.60	0.07	-	0.14	0.14	-	0.14	0.14	7427.9	0.30	0.06
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	2032	Other Construction Equipment	Other Construction Equipme	2	15.0	82	0.4	Diesel	Tier 4 Final	0.11	0.59	8.43	0.01	-	0.02	0.02	-	0.02	0.02	1200.1	0.05	0.01
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	2032	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.13	0.66	9.40	0.01	-	0.03	0.03	-	0.03	0.03	1342.8	0.05	0.01
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	2032	Welders	Welders	2	15.0	46	0.5	Diesel	Fleet Avg	0.48	4.40	5.97	0.01	-	0.05	0.05	-	0.04	0.04	778.1	0.03	0.01
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	2032	Aerial Lifts	Aerial Lifts	4	15.0	46	0.3	Diesel	Fleet Avg	0.27	5.38	5.78	0.01	-	0.03	0.03	-	0.03	0.03	1107.1	0.04	0.01
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	2032	Air Compressors	Air Compressors	4	15.0	37	0.5	Diesel	Fleet Avg	0.93	7.70	11.01	0.02	-	0.08	0.08	-	0.07	0.07	1335.0	0.05	0.01
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	2032	Cranes	Cranes	4	15.0	367	0.3	Diesel	Tier 4 Final	0.70	3.66	36.60	0.07	-	0.14	0.14	-	0.14	0.14	7427.9	0.30	0.06
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	2032	Other Construction Equipment	Other Construction Equipme	2	15.0	82	0.4	Diesel	Tier 4 Final	0.11	0.59	8.43	0.01	-	0.02	0.02	-	0.02	0.02	1200.1	0.05	0.01
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	2032	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.13	0.66	9.40	0.01	-	0.03	0.03	-	0.03	0.03	1342.8	0.05	0.01
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	2032	Welders	Welders	2	15.0	46	0.5	Diesel	Fleet Avg	0.48	4.40	5.97	0.01	-	0.05	0.05	-	0.04	0.04	778.1	0.03	0.01
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	2030	Air Compressors	Air Compressors	1	15.0	37	0.5	Diesel	Fleet Avg	0.25	1.96	2.77	0.00	-	0.03	0.03	-	0.03	0.03	333.8	0.01	0.00
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	2030	Concrete/Industrial Saws	Concrete/Industrial Saws	2	15.0	33	0.7	Diesel	Fleet Avg	0.54	5.19	6.76	0.01	-	0.07	0.07	-	0.06	0.06	914.5	0.04	0.01
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	1	15.0	96	0.4	Diesel	Tier 4 Final	0.06	0.33	4.70	0.01	-	0.01	0.01	-	0.01	0.01	671.4	0.03	0.01
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	2030	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.4	Diesel	Tier 4 Final	0.16	4.76	6.43	0.01	-	0.02	0.02	-	0.02	0.02	919.1	0.04	0.01
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.0	0.04	0.01

Sepulveda Transit Corridor Project - ALTERNATIVE 4

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Total Emissions (tons) ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	Total Emissions (metric tons) CO_2	CH_4	N_2O	CO_2e
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	2029	Aerial Lifts	Aerial Lifts	2	15.0	46	0.3	Diesel	Fleet Avg	0.03	0.56	0.60	0.00	-	0.00	0.00	-	0.00	0.00	104.2	0.00	0.00	104.6
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	2029	Cranes	Cranes	2	15.0	367	0.3	Diesel	Tier 4 Final	0.07	0.38	3.80	0.01	-	0.01	0.01	-	0.01	0.01	699.1	0.03	0.01	701.5
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	2029	Excavators	Excavators	2	15.0	36	0.4	Diesel	Fleet Avg	0.07	0.62	0.79	0.00	-	0.01	0.01	-	0.01	0.01	100.2	0.00	0.00	100.5
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.02	0.11	1.58	0.00	-	0.00	0.00	-	0.00	0.00	204.8	0.01	0.00	205.5
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	2030	Aerial Lifts	Aerial Lifts	2	15.0	46	0.3	Diesel	Fleet Avg	0.03	0.57	0.61	0.00	-	0.00	0.00	-	0.00	0.00	105.2	0.00	0.00	105.6
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	2030	Cranes	Cranes	2	15.0	367	0.3	Diesel	Tier 4 Final	0.07	0.38	3.83	0.01	-	0.01	0.01	-	0.01	0.01	705.9	0.03	0.01	708.3
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	2030	Excavators	Excavators	2	15.0	36	0.4	Diesel	Fleet Avg	0.06	0.62	0.79	0.00	-	0.01	0.01	-	0.01	0.01	101.1	0.00	0.00	101.5
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	2030	Pumps	Pumps	2	15.0	11	0.7	Diesel	Fleet Avg	0.06	0.48	0.34	0.00	-	0.02	0.02	-	0.02	0.02	58.2	0.00	0.00	58.4
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	2030	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.4	Diesel	Tier 4 Final	0.03	1.00	1.35	0.00	-	0.00	0.00	-	0.00	0.00	174.7	0.01	0.00	175.3
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.02	0.11	1.59	0.00	-	0.00	0.00	-	0.00	0.00	206.8	0.01	0.00	207.5
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	2032	Aerial Lifts	Aerial Lifts	2	15.0	46	0.3	Diesel	Fleet Avg	0.02	0.48	0.52	0.00	-	0.00	0.00	-	0.00	0.00	90.4	0.00	0.00	90.7
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	2032	Cranes	Cranes	2	15.0	367	0.3	Diesel	Tier 4 Final	0.06	0.33	3.29	0.01	-	0.01	0.01	-	0.01	0.01	606.5	0.02	0.00	608.5
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	2032	Excavators	Excavators	2	15.0	36	0.4	Diesel	Fleet Avg	0.05	0.53	0.68	0.00	-	0.01	0.01	-	0.01	0.01	86.9	0.00	0.00	87.2
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	2032	Pumps	Pumps	2	15.0	11	0.7	Diesel	Fleet Avg	0.05	0.41	0.29	0.00	-	0.02	0.02	-	0.01	0.01	50.0	0.00	0.00	50.1
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	2032	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.4	Diesel	Tier 4 Final	0.03	0.86	1.16	0.00	-	0.00	0.00	-	0.00	0.00	150.1	0.01	0.00	150.6
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	2032	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.02	0.10	1.37	0.00	-	0.00	0.00	-	0.00	0.00	177.7	0.01	0.00	178.3
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	2033	Aerial Lifts	Aerial Lifts	2	15.0	46	0.3	Diesel	Fleet Avg	0.05	1.04	1.12	0.00	-	0.01	0.01	-	0.01	0.01	194.3	0.01	0.00	195.0
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	2033	Cement and Mortar Mixers	Cement and Mortar Mixers	1	15.0	10	0.6	Diesel	Fleet Avg	0.04	0.30	0.23	0.00	-	0.01	0.01	-	0.01	0.01	37.1	0.00	0.00	37.2
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	2033	Generator Sets	Generator Sets	2	15.0	14	0.7	Diesel	Fleet Avg	0.14	1.13	0.75	0.00	-	0.04	0.04	-	0.04	0.04	136.7	0.01	0.00	137.2
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	2033	Pumps	Pumps	1	15.0	11	0.7	Diesel	Fleet Avg	0.06	0.44	0.31	0.00	-	0.02	0.02	-	0.02	0.02	53.7	0.00	0.00	53.9
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	2033	Welders	Welders	2	15.0	46	0.5	Diesel	Fleet Avg	0.18	1.69	2.31	0.00	-	0.02	0.02	-	0.01	0.01	273.2	0.01	0.00	274.1
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	2031	Air Compressors	Air Compressors	1	15.0	37	0.5	Diesel	Fleet Avg	0.02	0.15	0.22	0.00	-	0.00	0.00	-	0.00	0.00	23.6	0.00	0.00	23.7
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	2031	Concrete/Industrial Saws	Concrete/Industrial Saws	2	15.0	33	0.7	Diesel	Fleet Avg	0.04	0.40	0.53	0.00	-	0.00	0.00	-	0.00	0.00	64.6	0.00	0.00	64.9
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	2031	Rough Terrain Forklifts	Rough Terrain Forklifts	1	15.0	96	0.4	Diesel	Tier 4 Final	0.00	0.03	0.37	0.00	-	0.00	0.00	-	0.00	0.00	47.5	0.00	0.00	47.7
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	2031	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.4	Diesel	Tier 4 Final	0.01	0.37	0.50	0.00	-	0.00	0.00	-	0.00	0.00	65.0	0.00	0.00	65.3
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	2031	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.01	0.04	0.59	0.00	-	0.00	0.00	-	0.00	0.00	77.0	0.00	0.00	77.2
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	2032	Bore/Drill Rigs	Bore/Drill Rigs	2	15.0	83	0.5	Diesel	Tier 4 Final	0.02	0.09	1.34	0.00	-	0.00	0.00	-	0.00	0.00	171.4	0.01	0.00	171.9
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	2032	Cranes	Cranes	3	15.0	367	0.3	Diesel	Tier 4 Final	0.07	0.36	3.61	0.01	-	0.01	0.01	-	0.01	0.01	664.6	0.03	0.01	666.9
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	2032	Pumps	Pumps	3	15.0	11	0.7	Diesel	Fleet Avg	0.06	0.45	0.32	0.00	-	0.02	0.02	-	0.02	0.02	54.8	0.00	0.00	54.9
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	2032	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.02	0.09	1.24	0.00	-	0.00	0.00	-	0.00	0.00	160.2	0.01	0.00	160.7
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	2032	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.01	0.07	1.00	0.00	-	0.00	0.00	-	0.00	0.00	129.8	0.01	0.00	130.2
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	2033	Aerial Lifts	Aerial Lifts	4	15.0	46	0.3	Diesel	Fleet Avg	0.02	0.41	0.44	0.00	-	0.00	0.00	-	0.00	0.00	76.8	0.00	0.00	77.1
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	2033	Cranes	Cranes	4	15.0	367	0.3	Diesel	Tier 4 Final	0.05	0.28	2.80	0.01	-	0.01	0.01	-	0.01	0.01	515.5	0.02	0.00	517.3
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	2033	Other Construction Equipment	Other Construction Equipme	2	15.0	82	0.4	Diesel	Tier 4 Final	0.01	0.05	0.64	0.00	-	0.00	0.00	-	0.00	0.00	83.3	0.00	0.00	83.6
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	2033	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.01	0.05	0.72	0.00	-	0.00	0.00	-	0.00	0.00	93.2	0.00	0.00	93.5
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	2033	Welders	Welders	2	15.0	46	0.5	Diesel	Fleet Avg	0.04	0.33	0.46	0.00	-	0.00	0.00	-	0.00	0.00	54.0	0.00	0.00	54.2
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	2033	Aerial Lifts	Aerial Lifts	4	15.0	46	0.3	Diesel	Fleet Avg	0.07	1.41	1.51	0.00	-	0.01	0.01	-	0.01	0.01	262.6	0.01	0.00	263.5
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	2033	Air Compressors	Air Compressors	4	15.0	37	0.5	Diesel	Fleet Avg	0.24	2.00	2.88	0.00	-	0.02	0.02	-	0.02	0.02	316.7	0.01	0.00	317.8
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	2033	Cranes	Cranes	4	15.0	367	0.3	Diesel	Tier 4 Final	0.18	0.96	9.57	0.02	-	0.04	0.04	-	0.04	0.04	1762.1	0.07	0.01	1768.2
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	2033	Other Construction Equipment	Other Construction Equipme	2	15.0	82	0.4	Diesel	Tier 4 Final	0.03	0.15	2.20	0.00	-	0.01	0.01	-	0.01	0.01	284.7	0.01	0.00	285.7
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	2033	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.03	0.17	2.46	0.00	-	0.01	0.01	-	0.01	0.01	318.6	0.01	0.00	319.7
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	2033	Welders	Welders	2	15.0	46	0.5	Diesel	Fleet Avg	0.12	1.14	1.56	0.00	-	0.01	0.01	-	0.01	0.01	184.6	0.01	0.00	185.2
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	2035	Aerial Lifts	Aerial Lifts	1	15.0	46	0.3	Diesel	Fleet Avg	0.00	0.04	0.04	0.00	-	0.00	0.00	-	0.00	0.00	7.0	0.00	0.00	7.1
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	2035	Air Compressors	Air Compressors	1	15.0	37	0.5	Diesel	Fleet Avg	0.01	0.05	0.08	0.00	-	0.00	0.00	-	0.00	0.00	8.5	0.00	0.00	8.5
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	2035	Pavers	Pavers	1	15.0	81	0.4	Diesel	Tier 4 Final	0.00	0.01	0.12	0.00	-	0.00	0.00	-	0.00	0.00	15.0	0.00	0.00	15.1
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	2035	Paving Equipment	Paving Equipment	1	15.0	89	0.4	Diesel	Tier 4 Final	0.00	0.01	0.11	0.00	-	0.00	0.00	-	0.00	0.00	14.2	0.00	0.00	14.2
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	2035	Rollers	Rollers	1	15.0	36	0.4	Diesel	Fleet Avg	0.00	0.04	0.05	0.00	-	0.00	0.00	-	0.00	0.00	6.7	0.00	0.00	6.8
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	2031	Air Compressors	Air Compressors	1	15.0	37	0.5	Diesel	Fleet Avg	0.02	0.15	0.21	0.00	-	0.00	0.00	-	0.00	0.00	23.2	0.00	0.00	23.2
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	2031	Concrete/Industrial Saws	Concrete/Industrial Saws	2	15.0	33	0.7	Diesel	Fleet Avg	0.04	0.39	0.52	0.00	-	0.00	0.00	-	0.00	0.00	63.4	0.00	0.00	63.6
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	2031	Rough Terrain Forklifts	Rough Terrain Forklifts	1	15.0	96	0.4	Diesel	Tier 4 Final	0.00	0.03	0.36	0.00	-	0.00	0.00	-	0.00	0.00	46.6	0.00	0.00	46.8
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	2031	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.4	Diesel	Tier 4 Final	0.01	0.36	0.49	0.00	-	0.00	0.00	-	0.00	0.00	63.8	0.00	0.00	64.0
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	2031	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.01	0.04	0.58	0.00	-	0.00	0.00	-	0.00	0.00	75.5	0.00	0.00	75.8
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	2031	Bore/Drill Rigs	Bore/Drill Rigs	2	15.0	83	0.5	Diesel	Tier 4 Final	0.01	0.08	1.07	0.00	-	0.00	0.00	-	0.00	0.00	137.5	0.01	0.00	137.9
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	2031	Cranes	Cranes	3	15.0	367	0.3	Diesel	Tier 4 Final	0.06	0.29	2.90	0.01	-	0.01	0.01	-	0.01	0.01	533.2	0.02	0.00	535.0
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	2031	Pumps	Pumps	3	15.0	11	0.7	Diesel	Fleet Avg	0.05	0.36	0.25	0.00	-	0.01	0.01	-	0.01	0.01	43.9	0.00	0.00	44.1
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	2031	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.01	0.07	0.99	0.00	-	0.00	0.00	-	0.00	0.00	128.5	0.01	0.00	129.0
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	2031	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.01	0.06	0.80	0.00	-	0.00	0.00	-	0.00	0.00	104.1	0.00	0.00	104.5
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	2032	Aerial Lifts	Aerial Lifts	4	15.0	46	0.3	Diesel	Fleet Avg	0.02	0.35	0.38	0.00	-	0.00	0.00	-	0.00	0.00	65.3	0.00	0.00	65.5
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	2032	Cranes	Cranes	4	15.0	367	0.3	Diesel	Tier 4 Final	0.05	0.24	2.38	0.00	-	0.01	0.01	-	0.01	0.01	438.0	0.02	0.00	439.5
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	2032	Other Construction Equipment	Other Construction Equipme	2	15.0	82	0.4	Diesel	Tier 4 Final	0.01	0.04	0.55	0.00	-	0.00	0.00	-	0.00	0.00	70.8	0.00	0.00	71.0
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	2032	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.01	0.04	0.61	0.00	-	0.00	0.00	-	0.00	0.00	79.2	0.00	0.00	79.5
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	2032	Welders	Welders	2	15.0	46	0.5	Diesel	Fleet Avg	0.03	0.29	0.39	0.00	-	0.00	0.00	-	0.00	0.00	45.9	0.00	0.00	46.0
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	2032	Aerial Lifts	Aerial Lifts	4	15.0	46	0.3	Diesel	Fleet Avg	0.08	1.54	1.66	0.00	-	0.01	0.01	-	0.01	0.01	288.2	0.01	0.00	289.2
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	2032	Air Compressors	Air Compressors	4	15.0	37	0.5	Diesel	Fleet Avg	0.27	2.21	3.16	0.00	-	0.02	0.02	-	0.02	0.02	347.6	0.01	0.00	348.8
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	2032	Cranes	Cranes	4	15.0	367	0.3	Diesel	Tier 4 Final	0.20	1.05	10.51	0.02	-	0.04	0.04	-	0.04	0.04	1933.9	0.08	0.02	1940.6
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	2032	Other Construction Equipment	Other Construction Equipme	2	15.0	82	0.4	Diesel	Tier 4 Final	0.03	0.17	2.42	0.00	-	0.01	0.01	-	0.01	0.01	312.5	0.01	0.00	313.5
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	2032	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.70	0.00	-	0.01	0.01	-	0.01	0.01	349.6	0.01	0.00	350.8
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	2032	Welders	Welders	2	15.0	46	0.5	Diesel	Fleet Avg	0.14	1.26	1.71	0.00	-	0.01	0.01	-	0.01	0.01	202.6	0.01	0.00	203.3
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	2030	Air Compressors	Air Compressors	1	15.0	37	0.5	Diesel	Fleet Avg	0.02	0.15	0.21	0.00	-	0.00	0.00	-	0.00	0.00	23.5	0.00	0.00	23.5
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	2030	Concrete/Industrial Saws	Concrete/Industrial Saws	2	15.0	33	0.7	Diesel	Fleet Avg	0.04	0.40	0.52	0.00	-	0.01	0.01	-	0.00	0.00	64.3	0.00	0.00	64.5
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	1	15.0	96	0.4	Diesel	Tier 4 Final	0.00	0.03	0.36	0.00	-	0.00	0.00	-	0.00	0.00	47.2	0.00	0.00	47.4
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	2030	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.4	Diesel	Tier 4 Final	0.01	0.37	0.50	0.00	-	0.00	0.00	-	0.00	0.00	64.6	0.00	0.00	64.8
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.01	0.04	0.59	0.00	-	0.00	0.00	-	0.00	0.00	76.5	0.00	0.00	76.8

Sepulveda Transit Corridor Project - ALTERNATIVE 4

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Emission Factor (g/bhp-hr)[3] ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	2030	Bore/Drill Rigs	Bore/Drill Rigs	2	15.0	83	0.5	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.33	0.02	0.00
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	2030	Cranes	Cranes	2	15.0	367	0.3	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	2030	Pumps	Pumps	2	15.0	11	0.7	Diesel	Fleet Avg	0.56	4.25	2.97	0.01	-	0.17	0.17	-	0.15	0.15	568.35	0.02	0.00
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	2031	Aerial Lifts	Aerial Lifts	2	15.0	46	0.3	Diesel	Fleet Avg	0.15	2.85	3.07	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	2031	Cranes	Cranes	2	15.0	367	0.3	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	2031	Excavators	Excavators	2	15.0	36	0.4	Diesel	Fleet Avg	0.31	3.28	4.17	0.01	-	0.06	0.06	-	0.05	0.05	588.07	0.02	0.00
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	2031	Pumps	Pumps	2	15.0	11	0.7	Diesel	Fleet Avg	0.56	4.24	2.97	0.01	-	0.17	0.17	-	0.15	0.15	568.32	0.02	0.00
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	2031	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.4	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.02	0.02	0.00
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	2031	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	2032	Aerial Lifts	Aerial Lifts	4	15.0	46	0.3	Diesel	Fleet Avg	0.15	2.85	3.06	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	2032	Air Compressors	Air Compressors	4	15.0	37	0.5	Diesel	Fleet Avg	0.40	3.28	4.69	0.01	-	0.03	0.03	-	0.03	0.03	568.28	0.02	0.00
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	2032	Cranes	Cranes	4	15.0	367	0.3	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	2032	Other Construction Equipment	Other Construction Equipme	2	15.0	82	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	526.88	0.02	0.00
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	2032	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	2032	Welders	Welders	2	15.0	46	0.5	Diesel	Fleet Avg	0.35	3.21	4.36	0.01	-	0.03	0.03	-	0.03	0.03	568.31	0.02	0.00
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	2033	Aerial Lifts	Aerial Lifts	1	15.0	46	0.3	Diesel	Fleet Avg	0.14	2.85	3.06	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	2033	Air Compressors	Air Compressors	1	15.0	37	0.5	Diesel	Fleet Avg	0.39	3.25	4.68	0.01	-	0.03	0.03	-	0.03	0.03	568.34	0.02	0.00
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	2033	Pavers	Pavers	1	15.0	81	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	525.85	0.02	0.00
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	2033	Paving Equipment	Paving Equipment	1	15.0	89	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	2033	Rollers	Rollers	1	15.0	36	0.4	Diesel	Fleet Avg	0.40	3.39	3.98	0.01	-	0.09	0.09	-	0.09	0.09	587.11	0.02	0.00
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	2029	Air Compressors	Air Compressors	1	15.0	37	0.5	Diesel	Fleet Avg	0.44	3.38	4.73	0.01	-	0.05	0.05	-	0.05	0.05	568.31	0.02	0.00
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	2029	Concrete/Industrial Saws	Concrete/Industrial Saws	2	15.0	33	0.7	Diesel	Fleet Avg	0.35	3.29	4.26	0.01	-	0.05	0.05	-	0.04	0.04	574.49	0.02	0.00
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	1	15.0	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	2029	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.4	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.01	0.02	0.00
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	2029	Bore/Drill Rigs	Bore/Drill Rigs	2	15.0	83	0.5	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.33	0.02	0.00
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	2029	Cranes	Cranes	3	15.0	367	0.3	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	2029	Pumps	Pumps	3	15.0	11	0.7	Diesel	Fleet Avg	0.56	4.26	2.98	0.01	-	0.17	0.17	-	0.15	0.15	568.32	0.02	0.00
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	2030	Aerial Lifts	Aerial Lifts	4	15.0	46	0.3	Diesel	Fleet Avg	0.15	2.86	3.07	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	2030	Cranes	Cranes	4	15.0	367	0.3	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	2030	Other Construction Equipment	Other Construction Equipme	2	15.0	82	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	526.89	0.02	0.00
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	2030	Welders	Welders	2	15.0	46	0.5	Diesel	Fleet Avg	0.37	3.27	4.39	0.01	-	0.05	0.05	-	0.04	0.04	568.30	0.02	0.00
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	2031	Aerial Lifts	Aerial Lifts	4	15.0	46	0.3	Diesel	Fleet Avg	0.15	2.85	3.07	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	2031	Air Compressors	Air Compressors	4	15.0	37	0.5	Diesel	Fleet Avg	0.41	3.31	4.70	0.01	-	0.04	0.04	-	0.04	0.04	568.34	0.02	0.00
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	2031	Cranes	Cranes	4	15.0	367	0.3	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	2031	Other Construction Equipment	Other Construction Equipme	2	15.0	82	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	526.88	0.02	0.00
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	2031	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	2031	Welders	Welders	2	15.0	46	0.5	Diesel	Fleet Avg	0.36	3.24	4.37	0.01	-	0.04	0.04	-	0.04	0.04	568.30	0.02	0.00
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	2032	Aerial Lifts	Aerial Lifts	1	15.0	46	0.3	Diesel	Fleet Avg	0.15	2.85	3.06	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	2032	Air Compressors	Air Compressors	1	15.0	37	0.5	Diesel	Fleet Avg	0.40	3.28	4.69	0.01	-	0.03	0.03	-	0.03	0.03	568.28	0.02	0.00
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	2032	Pavers	Pavers	1	15.0	81	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	525.85	0.02	0.00
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	2032	Paving Equipment	Paving Equipment	1	15.0	89	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	2032	Rollers	Rollers	1	15.0	36	0.4	Diesel	Fleet Avg	0.42	3.41	4.01	0.01	-	0.10	0.10	-	0.09	0.09	587.11	0.02	0.00
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Trenchers	Trenchers	1	7.5	40	0.5	Diesel	Fleet Avg	0.34	3.23	3.85	0.01	-	0.07	0.07	-	0.06	0.06	588.16	0.02	0.00
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Skid Steer Loaders	Skid Steer Loaders	1	7.5	71	0.4	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.01	0.02	0.00
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	1	7.5	84	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Cranes	Cranes	1	7.5	367	0.3	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Pumps	Pumps	1	7.5	11	0.7	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.34	0.02	0.00
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	1	7.5	84	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Aerial Lifts	Aerial Lifts	1	7.5	46	0.3	Diesel	Fleet Avg	0.14	2.85	3.06	0.01	-	0.02	0.02	-	0.01	0.01	586.90	0.02	0.00
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Cranes	Cranes	1	7.5	367	0.3	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Rough Terrain Forklifts	Rough Terrain Forklifts	1	7.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Welders	Welders	1	7.5	46	0.5	Diesel	Fleet Avg	0.34	3.17	4.35	0.01	-	0.03	0.03	-	0.02	0.02	568.32	0.02	0.00
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Air Compressors	Air Compressors	1	7.5	37	0.5	Diesel	Fleet Avg	0.39	3.23	4.68	0.01	-	0.03	0.03	-	0.02	0.02	568.40	0.02	0.00
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Generator Sets	Generator Sets	1	7.5	14	0.7	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Skid Steer Loaders	Skid Steer Loaders	1	7.5	71	0.4	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.01	0.02	0.00
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Concrete/Industrial Saws	Concrete/Industrial Saws	1	7.5	33	0.7	Diesel	Fleet Avg	0.32	3.20	4.22	0.01	-	0.03	0.03	-	0.03	0.03	573.77	0.02	0.00
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Excavators	Excavators	3	7.5	36	0.4	Diesel	Fleet Avg	0.29	3.27	4.15	0.01	-	0.05	0.05	-	0.05	0.05	588.07	0.02	0.00
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Rubber Tired Dozers	Rubber Tired Dozers	2	7.5	367	0.4	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	532.42	0.02	0.00
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Rubber Tired Dozers	Rubber Tired Dozers	3	7.5	367	0.4	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	532.42	0.02	0.00
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	4	7.5	84	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Excavators	Excavators	2	7.5	36	0.4	Diesel	Fleet Avg	0.29	3.27	4.15	0.01	-	0.05	0.05	-	0.05	0.05	588.07	0.02	0.00
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Graders	Graders	1	7.5	148	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Rubber Tired Dozers	Rubber Tired Dozers	1	7.5	367	0.4	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	532.42	0.02	0.00
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Scrapers	Scrapers	2	7.5	423	0.5	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	528.52	0.02	0.00
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	7.5	84	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Cranes	Cranes	1	7.5	367	0.3	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Forklifts	Forklifts	3	7.5	82	0.2	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	527.08	0.02	0.00
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Generator Sets	Generator Sets	1	7.5	14	0.7	Diesel	Fleet Avg	0.53	4.26	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	3	7.5	84	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Welders	Welders	1	7.5	46	0.5	Diesel	Fleet Avg	0.35	3.21	4.36	0.01	-	0.03	0.03	-	0.03	0.03	568.31	0.02	0.00
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Pavers	Pavers	2	7.5	81	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	525.86	0.02	0.00
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Paving Equipment	Paving Equipment	2	7.5	89	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Rollers	Rollers	2	7.5	36	0.4	Diesel	Fleet Avg	0.37	3.36	3.94	0.01	-	0.09	0.09	-	0.08	0.08	587.11	0.02	0.00
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Air Compressors	Air Compressors	1	7.5	37	0.5	Diesel	Fleet Avg	0.39	3.23	4.68	0.01	-	0.03	0.03	-	0.02	0.02	568.40	0.02	0.00
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Aerial Lifts	Aerial Lifts	2	7.5	46	0.3	Diesel	Fleet Avg	0.15	2.85	3.06	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Rough Terrain Forklifts	Rough Terrain Forklifts	2	7.5	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Welders	Welders	2	7.5	46	0.5	Diesel	Fleet Avg	0.35	3.21	4.36	0.01	-	0.03	0.03	-	0.03	0.03	568.31	0.02	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 4

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Daily Emissions (lb/day) ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	2030	Bore/Drill Rigs	Bore/Drill Rigs	2	15.0	83	0.5	Diesel	Tier 4 Final	0.14	0.71	10.16	0.01	-	0.03	0.03	-	0.03	0.03	1436.4	0.06	0.01
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	2030	Cranes	Cranes	2	15.0	367	0.3	Diesel	Tier 4 Final	0.35	1.83	18.30	0.03	-	0.07	0.07	-	0.07	0.07	3713.9	0.15	0.03
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	2030	Pumps	Pumps	2	15.0	11	0.7	Diesel	Fleet Avg	0.30	2.29	1.60	0.00	-	0.09	0.09	-	0.08	0.08	306.0	0.01	0.00
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.13	0.66	9.40	0.01	-	0.03	0.03	-	0.03	0.03	1342.8	0.05	0.01
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.0	0.04	0.01
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	2031	Aerial Lifts	Aerial Lifts	2	15.0	46	0.3	Diesel	Fleet Avg	0.14	2.69	2.89	0.01	-	0.02	0.02	-	0.02	0.02	553.5	0.02	0.00
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	2031	Cranes	Cranes	2	15.0	367	0.3	Diesel	Tier 4 Final	0.35	1.83	18.30	0.03	-	0.07	0.07	-	0.07	0.07	3713.9	0.15	0.03
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	2031	Excavators	Excavators	2	15.0	36	0.4	Diesel	Fleet Avg	0.28	2.97	3.77	0.00	-	0.05	0.05	-	0.05	0.05	532.1	0.02	0.00
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	2031	Pumps	Pumps	2	15.0	11	0.7	Diesel	Fleet Avg	0.30	2.28	1.60	0.00	-	0.09	0.09	-	0.08	0.08	306.0	0.01	0.00
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	2031	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.4	Diesel	Tier 4 Final	0.16	4.76	6.43	0.01	-	0.02	0.02	-	0.02	0.02	919.2	0.04	0.01
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	2031	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.0	0.04	0.01
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	2032	Aerial Lifts	Aerial Lifts	4	15.0	46	0.3	Diesel	Fleet Avg	0.27	5.38	5.78	0.01	-	0.03	0.03	-	0.03	0.03	1107.1	0.04	0.01
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	2032	Air Compressors	Air Compressors	4	15.0	37	0.5	Diesel	Fleet Avg	0.93	7.70	11.01	0.02	-	0.08	0.08	-	0.07	0.07	1335.0	0.05	0.01
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	2032	Cranes	Cranes	4	15.0	367	0.3	Diesel	Tier 4 Final	0.70	3.66	36.60	0.07	-	0.14	0.14	-	0.14	0.14	7427.9	0.30	0.06
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	2032	Other Construction Equipment	Other Construction Equipme	2	15.0	82	0.4	Diesel	Tier 4 Final	0.11	0.59	8.43	0.01	-	0.02	0.02	-	0.02	0.02	1200.1	0.05	0.01
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	2032	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.13	0.66	9.40	0.01	-	0.03	0.03	-	0.03	0.03	1342.8	0.05	0.01
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	2032	Welders	Welders	2	15.0	46	0.5	Diesel	Fleet Avg	0.48	4.40	5.97	0.01	-	0.05	0.05	-	0.04	0.04	778.1	0.03	0.01
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	2033	Aerial Lifts	Aerial Lifts	1	15.0	46	0.3	Diesel	Fleet Avg	0.07	1.34	1.44	0.00	-	0.01	0.01	-	0.01	0.01	276.8	0.01	0.00
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	2033	Air Compressors	Air Compressors	1	15.0	37	0.5	Diesel	Fleet Avg	0.23	1.91	2.75	0.00	-	0.02	0.02	-	0.02	0.02	333.8	0.01	0.00
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	2033	Pavers	Pavers	1	15.0	81	0.4	Diesel	Tier 4 Final	0.06	0.29	4.16	0.01	-	0.01	0.01	-	0.01	0.01	591.6	0.02	0.00
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	2033	Paving Equipment	Paving Equipment	1	15.0	89	0.4	Diesel	Tier 4 Final	0.05	0.28	3.92	0.01	-	0.01	0.01	-	0.01	0.01	559.0	0.02	0.00
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	2033	Rollers	Rollers	1	15.0	36	0.4	Diesel	Fleet Avg	0.18	1.54	1.80	0.00	-	0.04	0.04	-	0.04	0.04	265.6	0.01	0.00
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	2029	Air Compressors	Air Compressors	1	15.0	37	0.5	Diesel	Fleet Avg	0.26	1.99	2.78	0.00	-	0.03	0.03	-	0.03	0.03	333.8	0.01	0.00
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	2029	Concrete/Industrial Saws	Concrete/Industrial Saws	2	15.0	33	0.7	Diesel	Fleet Avg	0.57	5.25	6.78	0.01	-	0.08	0.08	-	0.07	0.07	915.3	0.04	0.01
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	1	15.0	96	0.4	Diesel	Tier 4 Final	0.06	0.33	4.70	0.01	-	0.01	0.01	-	0.01	0.01	671.4	0.03	0.01
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	2029	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.4	Diesel	Tier 4 Final	0.16	4.76	6.43	0.01	-	0.02	0.02	-	0.02	0.02	919.1	0.04	0.01
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.0	0.04	0.01
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	2029	Bore/Drill Rigs	Bore/Drill Rigs	2	15.0	83	0.5	Diesel	Tier 4 Final	0.14	0.71	10.16	0.01	-	0.03	0.03	-	0.03	0.03	1436.4	0.06	0.01
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	2029	Cranes	Cranes	3	15.0	367	0.3	Diesel	Tier 4 Final	0.53	2.75	27.45	0.05	-	0.11	0.11	-	0.11	0.11	5570.9	0.23	0.05
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	2029	Pumps	Pumps	3	15.0	11	0.7	Diesel	Fleet Avg	0.45	3.44	2.40	0.01	-	0.14	0.14	-	0.12	0.12	458.9	0.02	0.00
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.13	0.66	9.40	0.01	-	0.03	0.03	-	0.03	0.03	1342.8	0.05	0.01
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.0	0.04	0.01
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	2030	Aerial Lifts	Aerial Lifts	4	15.0	46	0.3	Diesel	Fleet Avg	0.28	5.39	5.79	0.01	-	0.04	0.04	-	0.03	0.03	1107.1	0.04	0.01
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	2030	Cranes	Cranes	4	15.0	367	0.3	Diesel	Tier 4 Final	0.70	3.66	36.60	0.07	-	0.14	0.14	-	0.14	0.14	7427.9	0.30	0.06
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	2030	Other Construction Equipment	Other Construction Equipme	2	15.0	82	0.4	Diesel	Tier 4 Final	0.11	0.59	8.43	0.01	-	0.02	0.02	-	0.02	0.02	1200.1	0.05	0.01
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.13	0.66	9.40	0.01	-	0.03	0.03	-	0.03	0.03	1342.8	0.05	0.01
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	2030	Welders	Welders	2	15.0	46	0.5	Diesel	Fleet Avg	0.51	4.48	6.01	0.01	-	0.06	0.06	-	0.06	0.06	778.0	0.03	0.01
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	2031	Aerial Lifts	Aerial Lifts	4	15.0	46	0.3	Diesel	Fleet Avg	0.28	5.38	5.78	0.01	-	0.03	0.03	-	0.03	0.03	1107.1	0.04	0.01
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	2031	Air Compressors	Air Compressors	4	15.0	37	0.5	Diesel	Fleet Avg	0.95	7.77	11.03	0.02	-	0.09	0.09	-	0.09	0.09	1335.2	0.05	0.01
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	2031	Cranes	Cranes	4	15.0	367	0.3	Diesel	Tier 4 Final	0.70	3.66	36.60	0.07	-	0.14	0.14	-	0.14	0.14	7427.9	0.30	0.06
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	2031	Other Construction Equipment	Other Construction Equipme	2	15.0	82	0.4	Diesel	Tier 4 Final	0.11	0.59	8.43	0.01	-	0.02	0.02	-	0.02	0.02	1200.1	0.05	0.01
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	2031	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.13	0.66	9.40	0.01	-	0.03	0.03	-	0.03	0.03	1342.8	0.05	0.01
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	2031	Welders	Welders	2	15.0	46	0.5	Diesel	Fleet Avg	0.49	4.44	5.99	0.01	-	0.05	0.05	-	0.05	0.05	778.0	0.03	0.01
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	2032	Aerial Lifts	Aerial Lifts	1	15.0	46	0.3	Diesel	Fleet Avg	0.07	1.35	1.44	0.00	-	0.01	0.01	-	0.01	0.01	276.8	0.01	0.00
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	2032	Air Compressors	Air Compressors	1	15.0	37	0.5	Diesel	Fleet Avg	0.23	1.93	2.75	0.00	-	0.02	0.02	-	0.02	0.02	333.8	0.01	0.00
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	2032	Pavers	Pavers	1	15.0	81	0.4	Diesel	Tier 4 Final	0.06	0.29	4.16	0.01	-	0.01	0.01	-	0.01	0.01	591.6	0.02	0.00
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	2032	Paving Equipment	Paving Equipment	1	15.0	89	0.4	Diesel	Tier 4 Final	0.05	0.28	3.92	0.01	-	0.01	0.01	-	0.01	0.01	559.0	0.02	0.00
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	2032	Rollers	Rollers	1	15.0	36	0.4	Diesel	Fleet Avg	0.19	1.54	1.81	0.00	-	0.05	0.05	-	0.04	0.04	265.6	0.01	0.00
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Trenchers	Trenchers	1	7.5	40	0.5	Diesel	Fleet Avg	0.11	1.07	1.27	0.00	-	0.02	0.02	-	0.02	0.02	194.5	0.01	0.00
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Skid Steer Loaders	Skid Steer Loaders	1	7.5	71	0.4	Diesel	Tier 4 Final	0.04	1.19	1.61	0.00	-	0.00	0.00	-	0.00	0.00	229.8	0.01	0.00
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	1	7.5	84	0.4	Diesel	Tier 4 Final	0.03	0.13	1.90	0.00	-	0.01	0.01	-	0.01	0.01	272.0	0.01	0.00
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Cranes	Cranes	1	7.5	367	0.3	Diesel	Tier 4 Final	0.09	0.46	4.58	0.01	-	0.02	0.02	-	0.02	0.02	928.5	0.04	0.01
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Pumps	Pumps	1	7.5	11	0.7	Diesel	Fleet Avg	0.07	0.57	0.40	0.00	-	0.02	0.02	-	0.02	0.02	76.5	0.00	0.00
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	1	7.5	84	0.4	Diesel	Tier 4 Final	0.03	0.13	1.90	0.00	-	0.01	0.01	-	0.01	0.01	272.0	0.01	0.00
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Aerial Lifts	Aerial Lifts	1	7.5	46	0.3	Diesel	Fleet Avg	0.03	0.67	0.72	0.00	-	0.00	0.00	-	0.00	0.00	138.4	0.01	0.00
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Cranes	Cranes	1	7.5	367	0.3	Diesel	Tier 4 Final	0.09	0.46	4.58	0.01	-	0.02	0.02	-	0.02	0.02	928.5	0.04	0.01
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Rough Terrain Forklifts	Rough Terrain Forklifts	1	7.5	96	0.4	Diesel	Tier 4 Final	0.03	0.17	2.35	0.00	-	0.01	0.01	-	0.01	0.01	335.7	0.01	0.00
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Welders	Welders	1	7.5	46	0.5	Diesel	Fleet Avg	0.12	1.08	1.49	0.00	-	0.01	0.01	-	0.01	0.01	194.5	0.01	0.00
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Air Compressors	Air Compressors	1	7.5	37	0.5	Diesel	Fleet Avg	0.11	0.95	1.37	0.00	-	0.01	0.01	-	0.01	0.01	166.9	0.01	0.00
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Generator Sets	Generator Sets	1	7.5	14	0.7	Diesel	Fleet Avg	0.09	0.73	0.49	0.00	-	0.03	0.03	-	0.03	0.03	97.3	0.00	0.00
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Skid Steer Loaders	Skid Steer Loaders	1	7.5	71	0.4	Diesel	Tier 4 Final	0.04	1.19	1.61	0.00	-	0.00	0.00	-	0.00	0.00	229.8	0.01	0.00
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Concrete/Industrial Saws	Concrete/Industrial Saws	1	7.5	33	0.7	Diesel	Fleet Avg	0.13	1.27	1.68	0.00	-	0.01	0.01	-	0.01	0.01	228.5	0.01	0.00
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Excavators	Excavators	3	7.5	36	0.4	Diesel	Fleet Avg	0.20	2.22	2.81	0.00	-	0.03	0.03	-	0.03	0.03	399.1	0.02	0.00
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Rubber Tired Dozers	Rubber Tired Dozers	2	7.5	367	0.4	Diesel	Tier 4 Final	0.24	1.26	12.62	0.02	-	0.05	0.05	-	0.05	0.05	2584.7	0.10	0.02
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Rubber Tired Dozers	Rubber Tired Dozers	3	7.5	367	0.4	Diesel	Tier 4 Final	0.36	1.89	18.93	0.04	-	0.07	0.07	-	0.07	0.07	3877.1	0.16	0.03
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	4	7.5	84	0.4	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.0	0.04	0.01
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Excavators	Excavators	2	7.5	36	0.4	Diesel	Fleet Avg	0.13	1.48	1.88	0.00	-	0.02	0.02	-	0.02	0.02	266.0	0.01	0.00
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Graders	Graders	1	7.5	148	0.4	Diesel	Tier 4 Final	0.05	0.26	3.71	0.00	-	0.01	0.01	-	0.01	0.01	532.8	0.02	0.00
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Rubber Tired Dozers	Rubber Tired Dozers	1	7.5	367	0.4	Diesel	Tier 4 Final	0.12	0.63	6.31	0.01	-	0.02	0.02	-	0.02	0.02	1292.4	0.05	0.01
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Scrapers	Scrapers	2	7.5	423	0.5	Diesel	Tier 4 Final	0.34	1.75	17.46	0.03	-	0.07	0.07	-	0.07	0.07	3548.7	0.14	0.03
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	7.5	84	0.4	Diesel	Tier 4 Final	0.05	0.27	3.80	0.01	-	0.01	0.01	-	0.01	0.01	544.0	0.02	0.00
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Cranes	Cranes	1	7.5	367	0.3	Diesel	Tier 4 Final	0.09	0.46	4.58	0.01	-	0.02	0.02	-	0.02	0.02	928.5	0.04	0.01
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Forklifts	Forklifts	3	7.5	82	0.2	Diesel	Tier 4 Final	0.04	0.21	3.01	0.00	-	0.01	0.01	-	0.01	0.01	428.8	0.02	0.00
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Generator Sets	Generator Sets	1	7.5	14	0.7	Diesel	Fleet Avg	0.09	0.73	0.49	0.00	-	0.03	0.03	-	0.03	0.03	97.4	0.00	0.00
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	3	7.5	84	0.4	Diesel	Tier 4 Final	0.08	0.40	5.70	0.01	-	0.02	0.02	-	0.02	0.02	816.0	0.03	0.01
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Welders	Welders	1	7.5	46	0.5	Diesel	Fleet Avg	0.12	1.10	1.49	0.00	-	0.01	0.01	-	0.01	0.01	194.5	0.01	0.00
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Pavers	Pavers	2	7.5	81	0.4	Diesel	Tier 4 Final	0.06	0.29	4.16	0.01	-	0.01	0.01	-	0.01	0.01	591.6	0.02	0.00
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Paving Equipment	Paving Equipment	2	7.5	89	0.4	Diesel	Tier 4 Final	0.05	0.28	3.92	0.01	-	0.01	0.01	-	0.01	0.01	559.0	0.02	0.00
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Rollers	Rollers	2	7.5	36	0.4	Diesel	Fleet Avg	0.17	1.52	1.78	0.00	-	0.04	0.04	-	0.04	0.04	265.6	0.01	0.00
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Air Compressors	Air Compressors	1	7.5	37	0.5	Diesel	Fleet Avg	0.11	0.95	1.37	0.00	-	0.01	0.01	-	0.01	0.01	166.9	0.01	0.00
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Aerial Lifts	Aerial Lifts	2	7.5	46	0.3	Diesel	Fleet Avg	0.07	1.35	1.44	0.00	-	0.01	0.01	-	0.01	0.01	276.8	0.01	0.00
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Rough Terrain Forklifts	Rough Terrain Forklifts	2	7.5	96	0.4	Diesel	Tier 4 Final	0.06	0.33	4.70	0.01	-	0.01	0.01	-	0.01	0.01	671.4	0.03	0.01
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Welders	Welders	2	7.5	46	0.5	Diesel	Fleet Avg	0.24	2.20	2.99	0.01	-	0.02	0.02	-	0.02	0.02	389.0	0.02	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 4

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Total Emissions (tons) ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	Total Emissions (metric tons) CO_2	CH_4	N_2O	CO_2e
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	2030	Bore/Drill Rigs	Bore/Drill Rigs	2	15.0	83	0.5	Diesel	Tier 4 Final	0.01	0.05	0.67	0.00	-	0.00	0.00	-	0.00	0.00	85.4	0.00	0.00	85.6
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	2030	Cranes	Cranes	2	15.0	367	0.3	Diesel	Tier 4 Final	0.02	0.12	1.20	0.00	-	0.00	0.00	-	0.00	0.00	220.7	0.01	0.00	221.4
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	2030	Pumps	Pumps	2	15.0	11	0.7	Diesel	Fleet Avg	0.02	0.15	0.10	0.00	-	0.01	0.01	-	0.01	0.01	18.2	0.00	0.00	18.2
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.01	0.04	0.62	0.00	-	0.00	0.00	-	0.00	0.00	79.8	0.00	0.00	80.1
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.01	0.04	0.50	0.00	-	0.00	0.00	-	0.00	0.00	64.6	0.00	0.00	64.9
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	2031	Aerial Lifts	Aerial Lifts	2	15.0	46	0.3	Diesel	Fleet Avg	0.02	0.32	0.34	0.00	-	0.00	0.00	-	0.00	0.00	59.0	0.00	0.00	59.2
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	2031	Cranes	Cranes	2	15.0	367	0.3	Diesel	Tier 4 Final	0.04	0.22	2.15	0.00	-	0.01	0.01	-	0.01	0.01	395.9	0.02	0.00	397.2
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	2031	Excavators	Excavators	2	15.0	36	0.4	Diesel	Fleet Avg	0.03	0.35	0.44	0.00	-	0.01	0.01	-	0.01	0.01	56.7	0.00	0.00	56.9
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	2031	Pumps	Pumps	2	15.0	11	0.7	Diesel	Fleet Avg	0.04	0.27	0.19	0.00	-	0.01	0.01	-	0.01	0.01	32.6	0.00	0.00	32.7
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	2031	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.4	Diesel	Tier 4 Final	0.02	0.56	0.76	0.00	-	0.00	0.00	-	0.00	0.00	98.0	0.00	0.00	98.3
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	2031	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.01	0.06	0.89	0.00	-	0.00	0.00	-	0.00	0.00	116.0	0.00	0.00	116.4
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	2032	Aerial Lifts	Aerial Lifts	4	15.0	46	0.3	Diesel	Fleet Avg	0.08	1.49	1.60	0.00	-	0.01	0.01	-	0.01	0.01	277.2	0.01	0.00	278.1
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	2032	Air Compressors	Air Compressors	4	15.0	37	0.5	Diesel	Fleet Avg	0.26	2.13	3.04	0.00	-	0.02	0.02	-	0.02	0.02	334.3	0.01	0.00	335.4
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	2032	Cranes	Cranes	4	15.0	367	0.3	Diesel	Tier 4 Final	0.19	1.01	10.10	0.02	-	0.04	0.04	-	0.04	0.04	1859.8	0.08	0.02	1866.2
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	2032	Other Construction Equipment	Other Construction Equipme	2	15.0	82	0.4	Diesel	Tier 4 Final	0.03	0.16	2.33	0.00	-	0.01	0.01	-	0.01	0.01	300.5	0.01	0.00	301.5
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	2032	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.04	0.18	2.59	0.00	-	0.01	0.01	-	0.01	0.01	336.2	0.01	0.00	337.4
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	2032	Welders	Welders	2	15.0	46	0.5	Diesel	Fleet Avg	0.13	1.21	1.65	0.00	-	0.01	0.01	-	0.01	0.01	194.8	0.01	0.00	195.5
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	2033	Aerial Lifts	Aerial Lifts	1	15.0	46	0.3	Diesel	Fleet Avg	0.00	0.04	0.04	0.00	-	0.00	0.00	-	0.00	0.00	6.7	0.00	0.00	6.7
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	2033	Air Compressors	Air Compressors	1	15.0	37	0.5	Diesel	Fleet Avg	0.01	0.05	0.07	0.00	-	0.00	0.00	-	0.00	0.00	8.0	0.00	0.00	8.1
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	2033	Pavers	Pavers	1	15.0	81	0.4	Diesel	Tier 4 Final	0.00	0.01	0.11	0.00	-	0.00	0.00	-	0.00	0.00	14.2	0.00	0.00	14.3
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	2033	Paving Equipment	Paving Equipment	1	15.0	89	0.4	Diesel	Tier 4 Final	0.00	0.01	0.10	0.00	-	0.00	0.00	-	0.00	0.00	13.4	0.00	0.00	13.5
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	2033	Rollers	Rollers	1	15.0	36	0.4	Diesel	Fleet Avg	0.00	0.04	0.05	0.00	-	0.00	0.00	-	0.00	0.00	6.4	0.00	0.00	6.4
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	2029	Air Compressors	Air Compressors	1	15.0	37	0.5	Diesel	Fleet Avg	0.02	0.15	0.21	0.00	-	0.00	0.00	-	0.00	0.00	23.3	0.00	0.00	23.4
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	2029	Concrete/Industrial Saws	Concrete/Industrial Saws	2	15.0	33	0.7	Diesel	Fleet Avg	0.04	0.40	0.52	0.00	-	0.01	0.01	-	0.01	0.01	63.9	0.00	0.00	64.2
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	1	15.0	96	0.4	Diesel	Tier 4 Final	0.00	0.03	0.36	0.00	-	0.00	0.00	-	0.00	0.00	46.9	0.00	0.00	47.1
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	2029	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.4	Diesel	Tier 4 Final	0.01	0.37	0.50	0.00	-	0.00	0.00	-	0.00	0.00	64.2	0.00	0.00	64.4
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.01	0.04	0.59	0.00	-	0.00	0.00	-	0.00	0.00	76.0	0.00	0.00	76.3
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	2029	Bore/Drill Rigs	Bore/Drill Rigs	2	15.0	83	0.5	Diesel	Tier 4 Final	0.01	0.05	0.68	0.00	-	0.00	0.00	-	0.00	0.00	86.7	0.00	0.00	87.0
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	2029	Cranes	Cranes	3	15.0	367	0.3	Diesel	Tier 4 Final	0.04	0.18	1.83	0.00	-	0.01	0.01	-	0.01	0.01	336.1	0.01	0.00	337.2
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	2029	Pumps	Pumps	3	15.0	11	0.7	Diesel	Fleet Avg	0.03	0.23	0.16	0.00	-	0.01	0.01	-	0.01	0.01	27.7	0.00	0.00	27.8
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.01	0.04	0.62	0.00	-	0.00	0.00	-	0.00	0.00	81.0	0.00	0.00	81.3
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.01	0.04	0.51	0.00	-	0.00	0.00	-	0.00	0.00	65.6	0.00	0.00	65.9
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	2030	Aerial Lifts	Aerial Lifts	4	15.0	46	0.3	Diesel	Fleet Avg	0.03	0.63	0.67	0.00	-	0.00	0.00	-	0.00	0.00	117.0	0.00	0.00	117.4
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	2030	Cranes	Cranes	4	15.0	367	0.3	Diesel	Tier 4 Final	0.08	0.43	4.26	0.01	-	0.02	0.02	-	0.02	0.02	785.0	0.03	0.01	787.7
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	2030	Other Construction Equipment	Other Construction Equipme	2	15.0	82	0.4	Diesel	Tier 4 Final	0.01	0.07	0.98	0.00	-	0.00	0.00	-	0.00	0.00	126.8	0.01	0.00	127.3
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.01	0.08	1.09	0.00	-	0.00	0.00	-	0.00	0.00	141.9	0.01	0.00	142.4
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	2030	Welders	Welders	2	15.0	46	0.5	Diesel	Fleet Avg	0.06	0.52	0.70	0.00	-	0.01	0.01	-	0.01	0.01	82.2	0.00	0.00	82.5
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	2031	Aerial Lifts	Aerial Lifts	4	15.0	46	0.3	Diesel	Fleet Avg	0.08	1.55	1.67	0.00	-	0.01	0.01	-	0.01	0.01	289.7	0.01	0.00	290.7
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	2031	Air Compressors	Air Compressors	4	15.0	37	0.5	Diesel	Fleet Avg	0.28	2.24	3.18	0.00	-	0.03	0.03	-	0.03	0.03	349.4	0.01	0.00	350.6
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	2031	Cranes	Cranes	4	15.0	367	0.3	Diesel	Tier 4 Final	0.20	1.06	10.56	0.02	-	0.04	0.04	-	0.04	0.04	1944.0	0.08	0.02	1950.7
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	2031	Other Construction Equipment	Other Construction Equipme	2	15.0	82	0.4	Diesel	Tier 4 Final	0.03	0.17	2.43	0.00	-	0.01	0.01	-	0.01	0.01	314.1	0.01	0.00	315.2
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	2031	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.04	0.19	2.71	0.00	-	0.01	0.01	-	0.01	0.01	351.4	0.01	0.00	352.7
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	2031	Welders	Welders	2	15.0	46	0.5	Diesel	Fleet Avg	0.14	1.28	1.73	0.00	-	0.02	0.02	-	0.01	0.01	203.6	0.01	0.00	204.3
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	2032	Aerial Lifts	Aerial Lifts	1	15.0	46	0.3	Diesel	Fleet Avg	0.00	0.04	0.04	0.00	-	0.00	0.00	-	0.00	0.00	6.7	0.00	0.00	6.7
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	2032	Air Compressors	Air Compressors	1	15.0	37	0.5	Diesel	Fleet Avg	0.01	0.05	0.07	0.00	-	0.00	0.00	-	0.00	0.00	8.0	0.00	0.00	8.1
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	2032	Pavers	Pavers	1	15.0	81	0.4	Diesel	Tier 4 Final	0.00	0.01	0.11	0.00	-	0.00	0.00	-	0.00	0.00	14.2	0.00	0.00	14.3
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	2032	Paving Equipment	Paving Equipment	1	15.0	89	0.4	Diesel	Tier 4 Final	0.00	0.01	0.10	0.00	-	0.00	0.00	-	0.00	0.00	13.4	0.00	0.00	13.5
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	2032	Rollers	Rollers	1	15.0	36	0.4	Diesel	Fleet Avg	0.01	0.04	0.05	0.00	-	0.00	0.00	-	0.00	0.00	6.4	0.00	0.00	6.4
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Trenchers	Trenchers	1	7.5	40	0.5	Diesel	Fleet Avg	0.00	0.04	0.05	0.00	-	0.00	0.00	-	0.00	0.00	6.8	0.00	0.00	6.8
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Skid Steer Loaders	Skid Steer Loaders	1	7.5	71	0.4	Diesel	Tier 4 Final	0.00	0.05	0.06	0.00	-	0.00	0.00	-	0.00	0.00	8.0	0.00	0.00	8.1
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	1	7.5	84	0.4	Diesel	Tier 4 Final	0.00	0.01	0.07	0.00	-	0.00	0.00	-	0.00	0.00	9.5	0.00	0.00	9.5
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Cranes	Cranes	1	7.5	367	0.3	Diesel	Tier 4 Final	0.00	0.02	0.24	0.00	-	0.00	0.00	-	0.00	0.00	43.8	0.00	0.00	44.0
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Pumps	Pumps	1	7.5	11	0.7	Diesel	Fleet Avg	0.00	0.03	0.02	0.00	-	0.00	0.00	-	0.00	0.00	3.6	0.00	0.00	3.6
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	1	7.5	84	0.4	Diesel	Tier 4 Final	0.00	0.01	0.10	0.00	-	0.00	0.00	-	0.00	0.00	12.8	0.00	0.00	12.9
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Aerial Lifts	Aerial Lifts	1	7.5	46	0.3	Diesel	Fleet Avg	0.00	0.00	0.00	0.00	-	0.00	0.00	-	0.00	0.00	0.4	0.00	0.00	0.4
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Cranes	Cranes	1	7.5	367	0.3	Diesel	Tier 4 Final	0.00	0.00	0.01	0.00	-	0.00	0.00	-	0.00	0.00	2.5	0.00	0.00	2.5
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Rough Terrain Forklifts	Rough Terrain Forklifts	1	7.5	96	0.4	Diesel	Tier 4 Final	0.00	0.00	0.01	0.00	-	0.00	0.00	-	0.00	0.00	0.9	0.00	0.00	0.9
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Welders	Welders	1	7.5	46	0.5	Diesel	Fleet Avg	0.00	0.00	0.00	0.00	-	0.00	0.00	-	0.00	0.00	0.5	0.00	0.00	0.5
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Air Compressors	Air Compressors	1	7.5	37	0.5	Diesel	Fleet Avg	0.00	0.01	0.01	0.00	-	0.00	0.00	-	0.00	0.00	1.6	0.00	0.00	1.6
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Generator Sets	Generator Sets	1	7.5	14	0.7	Diesel	Fleet Avg	0.00	0.01	0.01	0.00	-	0.00	0.00	-	0.00	0.00	0.9	0.00	0.00	0.9
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Skid Steer Loaders	Skid Steer Loaders	1	7.5	71	0.4	Diesel	Tier 4 Final	0.00	0.01	0.02	0.00	-	0.00	0.00	-	0.00	0.00	2.2	0.00	0.00	2.2
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Concrete/Industrial Saws	Concrete/Industrial Saws	1	7.5	33	0.7	Diesel	Fleet Avg	0.00	0.05	0.06	0.00	-	0.00	0.00	-	0.00	0.00	8.0	0.00	0.00	8.0
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Excavators	Excavators	3	7.5	36	0.4	Diesel	Fleet Avg	0.01	0.09	0.11	0.00	-	0.00	0.00	-	0.00	0.00	13.9	0.00	0.00	14.0
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Rubber Tired Dozers	Rubber Tired Dozers	2	7.5	367	0.4	Diesel	Tier 4 Final	0.01	0.05	0.49	0.00	-	0.00	0.00	-	0.00	0.00	90.3	0.00	0.00	90.6
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Rubber Tired Dozers	Rubber Tired Dozers	3	7.5	367	0.4	Diesel	Tier 4 Final	0.01	0.05	0.49	0.00	-	0.00	0.00	-	0.00	0.00	91.4	0.00	0.00	91.8
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	4	7.5	84	0.4	Diesel	Tier 4 Final	0.00	0.01	0.20	0.00	-	0.00	0.00	-	0.00	0.00	25.7	0.00	0.00	25.7
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Excavators	Excavators	2	7.5	36	0.4	Diesel	Fleet Avg	0.01	0.10	0.12	0.00	-	0.00	0.00	-	0.00	0.00	15.9	0.00	0.00	16.0
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Graders	Graders	1	7.5	148	0.4	Diesel	Tier 4 Final	0.00	0.02	0.25	0.00	-	0.00	0.00	-	0.00	0.00	31.9	0.00	0.00	32.0
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Rubber Tired Dozers	Rubber Tired Dozers	1	7.5	367	0.4	Diesel	Tier 4 Final	0.01	0.04	0.42	0.00	-	0.00	0.00	-	0.00	0.00	77.4	0.00	0.00	77.6
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Scrapers	Scrapers	2	7.5	423	0.5	Diesel	Tier 4 Final	0.02	0.12	1.15	0.00	-	0.00	0.00	-	0.00	0.00	212.5	0.01	0.00	213.2
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	7.5	84	0.4	Diesel	Tier 4 Final	0.00	0.02	0.25	0.00	-	0.00	0.00	-	0.00	0.00	32.6	0.00	0.00	32.7
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Cranes	Cranes	1	7.5	367	0.3	Diesel	Tier 4 Final	0.03	0.18	1.79	0.00	-	0.01	0.01	-	0.01	0.01	329.3	0.01	0.00	330.5
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Forklifts	Forklifts	3	7.5	82	0.2	Diesel	Tier 4 Final	0.02	0.08	1.18	0.00	-	0.00	0.00	-	0.00	0.00	152.1	0.01	0.00	152.6
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Generator Sets	Generator Sets	1	7.5	14	0.7	Diesel	Fleet Avg	0.04	0.29	0.19	0.00	-	0.01	0.01	-	0.01	0.01	34.5	0.00	0.00	34.6
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	3	7.5	84	0.4	Diesel	Tier 4 Final	0.03	0.16	2.23	0.00	-	0.01	0.01	-	0.01	0.01	289.4	0.01	0.00	290.4
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Welders	Welders	1	7.5	46	0.5	Diesel	Fleet Avg	0.05	0.43	0.58	0.00	-	0.00	0.00	-	0.00	0.00	69.0	0.00	0.00	69.2
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Pavers	Pavers	2	7.5	81	0.4	Diesel	Tier 4 Final	0.00	0.01	0.11	0.00	-	0.00	0.00	-	0.00	0.00	14.0	0.00	0.00	14.0
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Paving Equipment	Paving Equipment	2	7.5	89	0.4	Diesel	Tier 4 Final	0.00	0.01	0.10	0.00	-	0.00	0.00	-	0.00	0.00	13.2	0.00	0.00	13.2
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Rollers	Rollers	2	7.5	36	0.4	Diesel	Fleet Avg	0.00	0.04	0.05	0.00	-	0.00	0.00	-	0.00	0.00	6.3	0.00	0.00	6.3
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Air Compressors	Air Compressors	1	7.5	37	0.5	Diesel	Fleet Avg	0.00	0.04	0.05	0.00	-	0.00	0.00	-	0.00	0.00	5.9	0.00	0.00	5.9
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Aerial Lifts	Aerial Lifts	2	7.5	46	0.3	Diesel	Fleet Avg	0.02	0.42	0.45	0.00	-	0.00	0.00	-	0.00	0.00	78.6	0.00	0.00	78.9
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Rough Terrain Forklifts	Rough Terrain Forklifts	2	7.5	96	0.4	Diesel	Tier 4 Final	0.02	0.10	1.47	0.00	-	0.00	0.00	-	0.00	0.00	190.6	0.01	0.00	191.3
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Welders	Welders	2	7.5	46	0.5	Diesel	Fleet Avg	0.07	0.69	0.93	0.00	-	0.01	0.01	-	0.01	0.01	110.5	0.00	0.00	110.8

Sepulveda Transit Corridor Project - ALTERNATIVE 4

OFFROAD EQUIPMENT (ONSITE)[1]

														Emission Factor (g/bhp-hr)[3]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	2028	Cranes	Cranes	2	15.0	367	0.3	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.75	0.02	0.00
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	2028	Cement and Mortar Mixers	Cement and Mortar Mixers	2	15.0	10	0.6	Diesel	Fleet Avg	0.55	4.20	3.26	0.01	-	0.16	0.16	-	0.15	0.15	570.33	0.02	0.00
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	2028	Generator Sets	Generator Sets	2	15.0	14	0.7	Diesel	Fleet Avg	0.54	4.29	2.85	0.01	-	0.17	0.17	-	0.16	0.16	568.30	0.02	0.00
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	2028	Other General Industrial Equip	Other General Industrial Equ	1	15.0	35	0.3	Diesel	Fleet Avg	0.41	3.45	4.55	0.01	-	0.08	0.08	-	0.08	0.08	587.80	0.02	0.00
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	2028	Pumps	Pumps	2	15.0	11	0.7	Diesel	Fleet Avg	0.56	4.27	2.98	0.01	-	0.17	0.17	-	0.16	0.16	568.34	0.02	0.00
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	2028	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.60	0.02	0.00
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.57	0.02	0.00
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	2028	Welders	Welders	2	15.0	46	0.5	Diesel	Fleet Avg	0.41	3.37	4.43	0.01	-	0.06	0.06	-	0.06	0.06	568.31	0.02	0.00
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Cranes	Cranes	1	15.0	367	0.3	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.75	0.02	0.00
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.60	0.02	0.00
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.4	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.61	0.02	0.00
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.57	0.02	0.00
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Welders	Welders	2	15.0	46	0.5	Diesel	Fleet Avg	0.41	3.37	4.43	0.01	-	0.06	0.06	-	0.06	0.06	568.31	0.02	0.00
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Cranes	Cranes	1	15.0	367	0.3	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.75	0.02	0.00
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.60	0.02	0.00
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.4	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.61	0.02	0.00
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.57	0.02	0.00
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Welders	Welders	2	15.0	46	0.5	Diesel	Fleet Avg	0.41	3.37	4.43	0.01	-	0.06	0.06	-	0.06	0.06	568.31	0.02	0.00

Notes:

1. Data based on alternative specific information.
2. Horsepower and load factor based on default values for equipment in CalEEMod.
3. In accordance with Metro's Green Construction Policy, all off-road equipment equal to or greater than 50 HP would have emission factors for Tier 4 Final equipment, off-road equipment less than 50 HP would use fleet average emission factors from CalEEMod.

EXH = Exhaust

FD = Fugitive Dust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 4

OFFROAD EQUIPMENT (ONSITE)[1]

														Daily Emissions (lb/day)												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	2028	Cranes	Cranes	2	15.0	367	0.3	Diesel	Tier 4 Final	0.35	1.83	18.30	0.03	-	0.07	0.07	-	0.07	0.07	3714.9	0.15	0.03
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	2028	Cement and Mortar Mixers	Cement and Mortar Mixers	2	15.0	10	0.6	Diesel	Fleet Avg	0.20	1.55	1.21	0.00	-	0.06	0.06	-	0.06	0.06	211.2	0.01	0.00
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	2028	Generator Sets	Generator Sets	2	15.0	14	0.7	Diesel	Fleet Avg	0.37	2.94	1.95	0.01	-	0.12	0.12	-	0.11	0.11	389.4	0.02	0.00
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	2028	Other General Industrial Equip	Other General Industrial Equ	1	15.0	35	0.3	Diesel	Fleet Avg	0.16	1.36	1.79	0.00	-	0.03	0.03	-	0.03	0.03	231.3	0.01	0.00
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	2028	Pumps	Pumps	2	15.0	11	0.7	Diesel	Fleet Avg	0.30	2.30	1.60	0.00	-	0.09	0.09	-	0.08	0.08	306.0	0.01	0.00
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	2028	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.13	0.66	9.40	0.01	-	0.03	0.03	-	0.03	0.03	1342.5	0.05	0.01
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.6	0.04	0.01
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	2028	Welders	Welders	2	15.0	46	0.5	Diesel	Fleet Avg	0.56	4.61	6.07	0.01	-	0.09	0.09	-	0.08	0.08	778.1	0.03	0.01
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Cranes	Cranes	1	15.0	367	0.3	Diesel	Tier 4 Final	0.18	0.92	9.15	0.02	-	0.04	0.04	-	0.04	0.04	1857.5	0.08	0.02
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.13	0.66	9.40	0.01	-	0.03	0.03	-	0.03	0.03	1342.5	0.05	0.01
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.4	Diesel	Tier 4 Final	0.16	4.76	6.43	0.01	-	0.02	0.02	-	0.02	0.02	918.4	0.04	0.01
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.6	0.04	0.01
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Welders	Welders	2	15.0	46	0.5	Diesel	Fleet Avg	0.56	4.61	6.07	0.01	-	0.09	0.09	-	0.08	0.08	778.1	0.03	0.01
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Cranes	Cranes	1	15.0	367	0.3	Diesel	Tier 4 Final	0.18	0.92	9.15	0.02	-	0.04	0.04	-	0.04	0.04	1857.5	0.08	0.02
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.13	0.66	9.40	0.01	-	0.03	0.03	-	0.03	0.03	1342.5	0.05	0.01
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.4	Diesel	Tier 4 Final	0.16	4.76	6.43	0.01	-	0.02	0.02	-	0.02	0.02	918.4	0.04	0.01
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.6	0.04	0.01
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Welders	Welders	2	15.0	46	0.5	Diesel	Fleet Avg	0.56	4.61	6.07	0.01	-	0.09	0.09	-	0.08	0.08	778.1	0.03	0.01

Notes:

1. Data based on alternative specific information.
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3. In accordance with Metro's Green Construction Policy, all off-road equipment equal to or greater than 50 HP would have emission factors for Tier 4 Final equipment, off-road equipment less than 50 HP would use fleet average emission factors from CalEEMod.

EXH = Exhaust

FD = Fugitive Dust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 4

OFFROAD EQUIPMENT (ONSITE)[1]

															Total Emissions (tons)									Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	2028	Cranes	Cranes	2	15.0	367	0.3	Diesel	Tier 4 Final	0.25	1.31	13.14	0.02	-	0.05	0.05	-	0.05	0.05	2419.8	0.10	0.02	2428.1
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	2028	Cement and Mortar Mixers	Cement and Mortar Mixers	2	15.0	10	0.6	Diesel	Fleet Avg	0.15	1.12	0.87	0.00	-	0.04	0.04	-	0.04	0.04	137.6	0.01	0.00	138.1
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	2028	Generator Sets	Generator Sets	2	15.0	14	0.7	Diesel	Fleet Avg	0.26	2.11	1.40	0.00	-	0.08	0.08	-	0.08	0.08	253.6	0.01	0.00	254.5
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	2028	Other General Industrial Equip	Other General Industrial Equ	1	15.0	35	0.3	Diesel	Fleet Avg	0.12	0.97	1.28	0.00	-	0.02	0.02	-	0.02	0.02	150.7	0.01	0.00	151.2
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	2028	Pumps	Pumps	2	15.0	11	0.7	Diesel	Fleet Avg	0.22	1.65	1.15	0.00	-	0.07	0.07	-	0.06	0.06	199.3	0.01	0.00	200.0
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	2028	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.09	0.47	6.75	0.01	-	0.02	0.02	-	0.02	0.02	874.5	0.04	0.01	877.5
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.07	0.38	5.46	0.01	-	0.01	0.01	-	0.01	0.01	709.1	0.03	0.01	711.5
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	2028	Welders	Welders	2	15.0	46	0.5	Diesel	Fleet Avg	0.40	3.31	4.36	0.01	-	0.06	0.06	-	0.06	0.06	506.8	0.02	0.00	508.5
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Cranes	Cranes	1	15.0	367	0.3	Diesel	Tier 4 Final	0.26	1.36	13.60	0.03	-	0.05	0.05	-	0.05	0.05	2504.9	0.10	0.02	2513.5
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.19	0.98	13.97	0.02	-	0.04	0.04	-	0.04	0.04	1810.4	0.07	0.01	1816.6
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.4	Diesel	Tier 4 Final	0.23	7.08	9.56	0.01	-	0.03	0.03	-	0.03	0.03	1238.6	0.05	0.01	1242.8
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.15	0.79	11.31	0.01	-	0.03	0.03	-	0.03	0.03	1468.0	0.06	0.01	1473.0
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Welders	Welders	2	15.0	46	0.5	Diesel	Fleet Avg	0.83	6.86	9.02	0.01	-	0.13	0.13	-	0.12	0.12	1049.2	0.04	0.01	1052.8
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Cranes	Cranes	1	15.0	367	0.3	Diesel	Tier 4 Final	0.22	1.15	11.46	0.02	-	0.04	0.04	-	0.04	0.04	2109.7	0.09	0.02	2116.9
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.4	Diesel	Tier 4 Final	0.16	0.83	11.77	0.02	-	0.03	0.03	-	0.03	0.03	1524.8	0.06	0.01	1530.1
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.4	Diesel	Tier 4 Final	0.20	5.96	8.05	0.01	-	0.02	0.02	-	0.02	0.02	1043.2	0.04	0.01	1046.8
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.4	Diesel	Tier 4 Final	0.13	0.67	9.52	0.01	-	0.03	0.03	-	0.03	0.03	1236.4	0.05	0.01	1240.6
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Welders	Welders	2	15.0	46	0.5	Diesel	Fleet Avg	0.70	5.78	7.60	0.01	-	0.11	0.11	-	0.10	0.10	883.7	0.04	0.01	886.7

Notes:

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Sepulveda Transit Corridor Project - ALTERNATIVE 4

Demo Dust Control Reduction 36%

DEMOLITION FUGITIVE DUST (ONSITE)

								Demolition EF (lb pollutant/ton waste)[1]						Daily Emissions (lb/day)[2]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	Total Demo Debris Weight (tons)	Daily Demo Debris Weight (tons/day)	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	4543.09	58.24	0.0217	-	0.0217	0.0033	-	0.0033	0.81	-	0.81	0.12	-	0.12	0.03	-	0.03	0.00	-	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	2/13/2030	4/13/2032	7	791	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	4/14/2032	9/30/2033	7	535	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	10/1/2033	5/15/2034	7	227	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	1536.74	11.73	0.0217	-	0.0217	0.0033	-	0.0033	0.16	-	0.16	0.02	-	0.02	0.01	-	0.01	0.00	-	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Fill	3/1/2029	12/31/2032	7	1402	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Slabs, Walkways, Plenum	9/3/2032	8/31/2034	7	728	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	9420.60	45.73	0.0217	-	0.0217	0.0033	-	0.0033	0.63	-	0.63	0.10	-	0.10	0.07	-	0.07	0.01	-	0.01
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	11/20/2030	1/15/2031	6	49	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	1/5/2034	2/3/2034	6	26	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	8/18/2032	8/15/2033	6	311	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	6056.23	108.15	0.0217	-	0.0217	0.0033	-	0.0033	1.50	-	1.50	0.23	-	0.23	0.04	-	0.04	0.01	-	0.01
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	1250.33	6.01	0.0217	-	0.0217	0.0033	-	0.0033	0.08	-	0.08	0.01	-	0.01	0.01	-	0.01	0.00	-	0.00
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-TBM Pass Through-Maintenance	6/1/2030	7/31/2030	6	52	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	1752.49	8.51	0.0217	-	0.0217	0.0033	-	0.0033	0.12	-	0.12	0.02	-	0.02	0.01	-	0.01	0.00	-	0.00
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-TBM Pass Through-Maintenance	1/1/2031	2/28/2031	6	51	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	11072.96	53.24	0.0217	-	0.0217	0.0033	-	0.0033	0.74	-	0.74	0.11	-	0.11	0.08	-	0.08	0.01	-	0.01
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-TBM Pass Through-Maintenance	8/1/2031	9/30/2031	6	52	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	756.02	3.67	0.0217	-	0.0217	0.0033	-	0.0033	0.05	-	0.05	0.01	-	0.01	0.01	-	0.01	0.00	-	0.00
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	3788.11	24.28	0.0217	-	0.0217	0.0033	-	0.0033	0.34	-	0.34	0.05	-	0.05	0.03	-	0.03	0.00	-	0.00
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 4

Demo Dust Control Reduction 36%

DEMOLITION FUGITIVE DUST (ONSITE)

								Demolition EF (lb pollutant/ton waste)[1]						Daily Emissions (lb/day)[2]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	Total Demo Debris Weight (tons)	Daily Demo Debris Weight (tons/day)	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	431.37	2.82	0.0217	-	0.0217	0.0033	-	0.0033	0.04	-	0.04	0.01	-	0.01	0.00	-	0.00	0.00	-	0.00
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	2648.58	17.09	0.0217	-	0.0217	0.0033	-	0.0033	0.24	-	0.24	0.04	-	0.04	0.02	-	0.02	0.00	-	0.00
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	1731.85	11.25	0.0217	-	0.0217	0.0033	-	0.0033	0.16	-	0.16	0.02	-	0.02	0.01	-	0.01	0.00	-	0.00
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	19035.26	247.21	0.0217	-	0.0217	0.0033	-	0.0033	3.43	-	3.43	0.52	-	0.52	0.13	-	0.13	0.02	-	0.02
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Grading	3/1/2032	7/31/2032	6	132	10	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Paving	12/1/2034	1/30/2035	6	52	10	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

1. Emission factor based on CalEEMod default value.
2. Emissions account for application of water 2 times per day during demolition activities.

FD = Fugitive Dust

EXH = Exhaust

Sepulveda Transit Corridor Project - ALTERNATIVE 4

Dust Control Reduction 74%

TRUCK LOADING FUGITIVE DUST (ONSITE)

										Truck Loading EF (lb pollutant/ton throughput)[2]						Daily Emissions (lb/day)[3]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	Total Soil Volume (CY)	Soil Density (tons/CY)[1]	Total Throughput (tons)	Daily Throughput (tons)	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	75000	1.26	94812.5	911.7	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.03	-	0.03	0.00	-	0.00	0.00	-	0.00	0.00	-	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	950000	1.26	1200957.9	1518.3	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.04	-	0.04	0.01	-	0.01	0.02	-	0.02	0.00	-	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	2/13/2030	4/13/2032	7	791	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	4/14/2032	9/30/2033	7	535	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	10/1/2033	5/15/2034	7	227	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	29000	1.26	36660.8	352.5	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.01	-	0.01	0.00	-	0.00	0.00	-	0.00	0.00	-	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	1821000	1.26	2302046.7	1650.2	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.05	-	0.05	0.01	-	0.01	0.03	-	0.03	0.01	-	0.01
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Fill	3/1/2029	12/31/2032	7	1402	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Slabs, Walkways, Plenum	9/3/2032	8/31/2034	7	728	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	11/20/2030	1/15/2031	6	49	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	1/5/2034	2/3/2034	6	26	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	8/18/2032	8/15/2033	6	311	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	120000	1.26	151699.9	487.8	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.01	-	0.01	0.00	-	0.00	0.00	-	0.00	0.00	-	0.00
Metro E Line Stn_U-Alt4-TBM Pass Through-Maintenance	6/1/2030	7/31/2030	6	52	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	130000	1.26	164341.6	525.1	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.02	-	0.02	0.00	-	0.00	0.00	-	0.00	0.00	-	0.00
Santa Monica Stn_U-Alt4-TBM Pass Through-Maintenance	1/1/2031	2/28/2031	6	51	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	220000	1.26	278116.6	888.6	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.03	-	0.03	0.00	-	0.00	0.00	-	0.00	0.00	-	0.00
D Line Wilshire-Westwood Stn_U-Alt4-TBM Pass Through-Maintenance	8/1/2031	9/30/2031	6	52	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	185000	1.26	233870.7	563.5	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.02	-	0.02	0.00	-	0.00	0.00	-	0.00	0.00	-	0.00
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	287	1.26	362.9	1.4	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.00	-	0.00	0.00	-	0.00	0.00	-	0.00	0.00	-	0.00
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	713	1.26	901.3	4.3	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.00	-	0.00	0.00	-	0.00	0.00	-	0.00	0.00	-	0.00
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 4

Dust Control Reduction 74%

TRUCK LOADING FUGITIVE DUST (ONSITE)

										Truck Loading EF (lb pollutant/ton throughput)[2]						Daily Emissions (lb/day)[3]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	Total Soil Volume (CY)	Soil Density (tons/CY)[1]	Total Throughput (tons)	Daily Throughput (tons)	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	537	1.26	678.9	5.2	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.00	-	0.00	0.00	-	0.00	0.00	-	0.00	0.00	-	0.00
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	565	1.26	714.0	5.4	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.00	-	0.00	0.00	-	0.00	0.00	-	0.00	0.00	-	0.00
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	158	1.26	199.7	2.6	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.00	-	0.00	0.00	-	0.00	0.00	-	0.00	0.00	-	0.00
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Grading	3/1/2032	7/31/2032	6	132	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Paving	12/1/2034	1/30/2035	6	52	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

1. Conversion factor based on CalEEMod default value.
2. Emission factor based on CalEEMod default value.
3. Emissions account for dust control reduction from water application 3 times per day.

FD = Fugitive Dust

EXH = Exhaust

Sepulveda Transit Corridor Project - ALTERNATIVE 4

Dust Control Reduction 74%

BULLDOZING FUGITIVE DUST (ONSITE)

									Bulldozing EF (lb/hr)[1]						Daily Emissions (lb/day)[2,3]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	Air Compressors	1	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	Concrete/Industrial Saws	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	Rough Terrain Forklifts	1	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	Skid Steer Loaders	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	Tractors/Loaders/Backhoes	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	Bore/Drill Rigs	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	Cranes	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	Pumps	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	Rough Terrain Forklifts	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	Tractors/Loaders/Backhoes	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	Cranes	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	Excavators	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	Rough Terrain Forklifts	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	Tractors/Loaders/Backhoes	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	Cranes	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	Generator Sets	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	Pumps	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	Rough Terrain Forklifts	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	Cranes	4	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	Generator Sets	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	Pumps	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	Tractors/Loaders/Backhoes	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	Welders	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	Aerial Lifts	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	Cranes	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	Rough Terrain Forklifts	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	Tunnel Boring Machine (TBM	1	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	Tractors/Loaders/Backhoes	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	Cranes	4	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	Generator Sets	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	Pumps	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	Tractors/Loaders/Backhoes	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	Welders	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	2/13/2030	4/13/2032	7	791	20	Aerial Lifts	1	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	2/13/2030	4/13/2032	7	791	20	Air Compressors	1	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	2/13/2030	4/13/2032	7	791	20	Rollers	1	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	4/14/2032	9/30/2033	7	535	20	Aerial Lifts	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	4/14/2032	9/30/2033	7	535	20	Cement and Mortar Mixers	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	10/1/2033	5/15/2034	7	227	20	Aerial Lifts	1	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	10/1/2033	5/15/2034	7	227	20	Air Compressors	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	10/1/2033	5/15/2034	7	227	20	Generator Sets	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	10/1/2033	5/15/2034	7	227	20	Welders	3	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	Air Compressors	1	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	Concrete/Industrial Saws	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	Rough Terrain Forklifts	1	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	Skid Steer Loaders	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	Tractors/Loaders/Backhoes	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	Bore/Drill Rigs	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	Cranes	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	Pumps	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	Rough Terrain Forklifts	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	Tractors/Loaders/Backhoes	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	Cranes	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	Excavators	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	Rough Terrain Forklifts	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	Tractors/Loaders/Backhoes	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	Cranes	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	Generator Sets	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	Pumps	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	Rough Terrain Forklifts	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	Cranes	4	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	Generator Sets	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	Pumps	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	Tractors/Loaders/Backhoes	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	Welders	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 4

Dust Control Reduction 74%

BULLDOZING FUGITIVE DUST (ONSITE)

									Bulldozing EF (lb/hr)[1]						Daily Emissions (lb/day)[2,3]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	Aerial Lifts	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	Cranes	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	Rough Terrain Forklifts	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	Tunnel Boring Machine (TBM	1	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	Tractors/Loaders/Backhoes	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	Cranes	4	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	Generator Sets	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	Pumps	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	Tractors/Loaders/Backhoes	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	Welders	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Fill	3/1/2029	12/31/2032	7	1402	20	Aerial Lifts	1	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Fill	3/1/2029	12/31/2032	7	1402	20	Air Compressors	1	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Fill	3/1/2029	12/31/2032	7	1402	20	Rollers	1	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Slabs, Walkways, Plenum	9/3/2032	8/31/2034	7	728	20	Aerial Lifts	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Slabs, Walkways, Plenum	9/3/2032	8/31/2034	7	728	20	Cement and Mortar Mixers	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	Aerial Lifts	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	Air Compressors	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	Generator Sets	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	Rough Terrain Forklifts	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	Air Compressors	1	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	Concrete/Industrial Saws	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	Rough Terrain Forklifts	1	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	Skid Steer Loaders	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	Tractors/Loaders/Backhoes	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	Aerial Lifts	4	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	Bore/Drill Rigs	4	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	Cranes	4	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	Pumps	4	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	Rollers	4	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	Rough Terrain Forklifts	4	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	Aerial Lifts	4	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	Cranes	4	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	Pumps	4	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	Rough Terrain Forklifts	4	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	Aerial Lifts	4	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	Cranes	4	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	Pumps	4	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	Rough Terrain Forklifts	4	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	11/20/2030	1/15/2031	6	49	20	Aerial Lifts	4	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	11/20/2030	1/15/2031	6	49	20	Cranes	4	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	11/20/2030	1/15/2031	6	49	20	Rough Terrain Forklifts	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	Aerial Lifts	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	Cranes	4	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	Excavators	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	Other Construction Equipme	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	1/5/2034	2/3/2034	6	26	20	Aerial Lifts	4	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	1/5/2034	2/3/2034	6	26	20	Cranes	4	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	1/5/2034	2/3/2034	6	26	20	Rough Terrain Forklifts	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	Aerial Lifts	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	Air Compressors	4	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	Generator Sets	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	Skid Steer Loaders	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	Welders	3	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	Air Compressors	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	Generator Sets	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	Cranes	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	Welders	3	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	8/18/2032	8/15/2033	6	311	20	Pavers	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	8/18/2032	8/15/2033	6	311	20	Paving Equipment	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	8/18/2032	8/15/2033	6	311	20	Rollers	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	Air Compressors	1	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	Concrete/Industrial Saws	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	Rough Terrain Forklifts	1	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	Skid Steer Loaders	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	Tractors/Loaders/Backhoes	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	Cranes	1	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	Rough Terrain Forklifts	1	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	Skid Steer Loaders	1	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	Tractors/Loaders/Backhoes	1	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	Welders	1	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 4

Dust Control Reduction 74%

BULLDOZING FUGITIVE DUST (ONSITE)

									Bulldozing EF (lb/hr)[1]						Daily Emissions (lb/day)[2,3]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	Air Compressors	1	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	Concrete/Industrial Saws	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	Rough Terrain Forklifts	1	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	Skid Steer Loaders	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	Tractors/Loaders/Backhoes	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	Bore/Drill Rigs	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	Cranes	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	Pumps	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	Rough Terrain Forklifts	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	Tractors/Loaders/Backhoes	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	Aerial Lifts	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	Cranes	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	Excavators	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	Tractors/Loaders/Backhoes	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-TBM Pass Through-Maintenance	6/1/2030	7/31/2030	6	52	20	Cranes	1	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-TBM Pass Through-Maintenance	6/1/2030	7/31/2030	6	52	20	Generator Sets	1	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	Aerial Lifts	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	Cranes	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	Excavators	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	Pumps	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	Skid Steer Loaders	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	Tractors/Loaders/Backhoes	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	Aerial Lifts	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	Cement and Mortar Mixers	1	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	Generator Sets	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	Pumps	1	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	Welders	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	Aerial Lifts	1	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	Air Compressors	1	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	Pavers	1	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	Paving Equipment	1	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	Rollers	1	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	Air Compressors	1	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	Concrete/Industrial Saws	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	Rough Terrain Forklifts	1	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	Skid Steer Loaders	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	Tractors/Loaders/Backhoes	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	Bore/Drill Rigs	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	Cranes	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	Pumps	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	Rough Terrain Forklifts	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	Tractors/Loaders/Backhoes	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	Aerial Lifts	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	Cranes	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	Excavators	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	Tractors/Loaders/Backhoes	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-TBM Pass Through-Maintenance	1/1/2031	2/28/2031	6	51	20	Cranes	1	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-TBM Pass Through-Maintenance	1/1/2031	2/28/2031	6	51	20	Generator Sets	1	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	Aerial Lifts	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	Cranes	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	Excavators	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	Pumps	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	Skid Steer Loaders	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	Tractors/Loaders/Backhoes	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	Aerial Lifts	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	Cement and Mortar Mixers	1	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	Generator Sets	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	Pumps	1	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	Welders	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	Air Compressors	1	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	Concrete/Industrial Saws	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	Rough Terrain Forklifts	1	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	Skid Steer Loaders	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	Tractors/Loaders/Backhoes	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 4

Dust Control Reduction 74%

BULLDOZING FUGITIVE DUST (ONSITE)

									Bulldozing EF (lb/hr)[1]						Daily Emissions (lb/day)[2,3]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	Bore/Drill Rigs	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	Cranes	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	Pumps	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	Rough Terrain Forklifts	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	Tractors/Loaders/Backhoes	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	Aerial Lifts	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	Cranes	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	Excavators	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	Tractors/Loaders/Backhoes	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-TBM Pass Through-Maintenance	8/1/2031	9/30/2031	6	52	20	Cranes	1	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-TBM Pass Through-Maintenance	8/1/2031	9/30/2031	6	52	20	Generator Sets	1	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	Aerial Lifts	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	Cranes	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	Excavators	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	Pumps	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	Skid Steer Loaders	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	Tractors/Loaders/Backhoes	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	Aerial Lifts	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	Cement and Mortar Mixers	1	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	Generator Sets	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	Pumps	1	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	Welders	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	Air Compressors	1	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	Concrete/Industrial Saws	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	Rough Terrain Forklifts	1	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	Skid Steer Loaders	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	Tractors/Loaders/Backhoes	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	Bore/Drill Rigs	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	Cranes	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	Pumps	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	Rough Terrain Forklifts	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	Tractors/Loaders/Backhoes	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	Aerial Lifts	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	Cranes	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	Excavators	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	Tractors/Loaders/Backhoes	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	Aerial Lifts	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	Cranes	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	Excavators	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	Pumps	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	Skid Steer Loaders	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	Tractors/Loaders/Backhoes	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	Aerial Lifts	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	Cranes	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	Excavators	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	Pumps	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	Skid Steer Loaders	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	Tractors/Loaders/Backhoes	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	Aerial Lifts	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	Cement and Mortar Mixers	1	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	Generator Sets	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	Pumps	1	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	Welders	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	Air Compressors	1	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	Concrete/Industrial Saws	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	Rough Terrain Forklifts	1	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	Skid Steer Loaders	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	Tractors/Loaders/Backhoes	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	Bore/Drill Rigs	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	Cranes	3	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	Pumps	3	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	Rough Terrain Forklifts	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	Tractors/Loaders/Backhoes	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	Aerial Lifts	4	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	Cranes	4	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	Other Construction Equipme	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	Rough Terrain Forklifts	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	Welders	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	Aerial Lifts	4	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	Air Compressors	4	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	Cranes	4	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	Other Construction Equipme	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	Rough Terrain Forklifts	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	Welders	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 4

Dust Control Reduction 74%

BULLDOZING FUGITIVE DUST (ONSITE)

									Bulldozing EF (lb/hr)[1]						Daily Emissions (lb/day)[2,3]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	Aerial Lifts	1	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	Air Compressors	1	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	Pavers	1	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	Paving Equipment	1	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	Rollers	1	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	Air Compressors	1	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	Concrete/Industrial Saws	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	Rough Terrain Forklifts	1	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	Skid Steer Loaders	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	Tractors/Loaders/Backhoes	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	Bore/Drill Rigs	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	Cranes	3	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	Pumps	3	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	Rough Terrain Forklifts	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	Tractors/Loaders/Backhoes	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	Aerial Lifts	4	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	Cranes	4	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	Other Construction Equipme	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	Rough Terrain Forklifts	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	Welders	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	Aerial Lifts	4	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	Air Compressors	4	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	Cranes	4	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	Other Construction Equipme	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	Rough Terrain Forklifts	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	Welders	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	Air Compressors	1	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	Concrete/Industrial Saws	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	Rough Terrain Forklifts	1	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	Skid Steer Loaders	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	Tractors/Loaders/Backhoes	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	Bore/Drill Rigs	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	Cranes	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	Pumps	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	Rough Terrain Forklifts	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	Tractors/Loaders/Backhoes	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	Aerial Lifts	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	Cranes	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	Excavators	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	Pumps	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	Skid Steer Loaders	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	Tractors/Loaders/Backhoes	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	Aerial Lifts	4	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	Air Compressors	4	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	Cranes	4	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	Other Construction Equipme	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	Rough Terrain Forklifts	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	Welders	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	Aerial Lifts	1	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	Air Compressors	1	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	Pavers	1	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	Paving Equipment	1	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	Rollers	1	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	Air Compressors	1	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	Concrete/Industrial Saws	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	Rough Terrain Forklifts	1	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	Skid Steer Loaders	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	Tractors/Loaders/Backhoes	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	Bore/Drill Rigs	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	Cranes	3	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	Pumps	3	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	Rough Terrain Forklifts	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	Tractors/Loaders/Backhoes	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	Aerial Lifts	4	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	Cranes	4	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	Other Construction Equipme	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	Rough Terrain Forklifts	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	Welders	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	Aerial Lifts	4	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	Air Compressors	4	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	Cranes	4	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	Other Construction Equipme	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	Rough Terrain Forklifts	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	Welders	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 4

Dust Control Reduction 74%

BULLDOZING FUGITIVE DUST (ONSITE)

									Bulldozing EF (lb/hr)[1]						Daily Emissions (lb/day)[2,3]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	Aerial Lifts	1	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	Air Compressors	1	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	Pavers	1	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	Paving Equipment	1	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	Rollers	1	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	Trenchers	1	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	Skid Steer Loaders	1	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	Tractors/Loaders/Backhoes	1	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	Cranes	1	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	Pumps	1	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	Tractors/Loaders/Backhoes	1	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	Aerial Lifts	1	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	Cranes	1	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	Rough Terrain Forklifts	1	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	Welders	1	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	Air Compressors	1	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	Generator Sets	1	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	Skid Steer Loaders	1	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	Concrete/Industrial Saws	1	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	Excavators	3	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	Rubber Tired Dozers	2	7.5	0.75	-	0.75	0.41	-	0.41	2.94	-	2.94	1.61	-	1.61	0.11	-	0.11	0.06	-	0.06
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	Rubber Tired Dozers	3	7.5	0.75	-	0.75	0.41	-	0.41	4.40	-	4.40	2.42	-	2.42	0.11	-	0.11	0.06	-	0.06
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	Tractors/Loaders/Backhoes	4	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Grading	3/1/2032	7/31/2032	6	132	10	Excavators	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Grading	3/1/2032	7/31/2032	6	132	10	Graders	1	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Grading	3/1/2032	7/31/2032	6	132	10	Rubber Tired Dozers	1	7.5	0.75	-	0.75	0.41	-	0.41	1.47	-	1.47	0.81	-	0.81	0.10	-	0.10	0.05	-	0.05
MSF-Grading	3/1/2032	7/31/2032	6	132	10	Scrapers	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Grading	3/1/2032	7/31/2032	6	132	10	Tractors/Loaders/Backhoes	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	Cranes	1	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	Forklifts	3	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	Generator Sets	1	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	Tractors/Loaders/Backhoes	3	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	Welders	1	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Paving	12/1/2034	1/30/2035	6	52	10	Pavers	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Paving	12/1/2034	1/30/2035	6	52	10	Paving Equipment	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Paving	12/1/2034	1/30/2035	6	52	10	Rollers	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	Air Compressors	1	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	Aerial Lifts	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	Rough Terrain Forklifts	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	Welders	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	Cranes	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	Cement and Mortar Mixers	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	Generator Sets	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	Other General Industrial Equ	1	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	Pumps	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	Rough Terrain Forklifts	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	Tractors/Loaders/Backhoes	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	Welders	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	Cranes	1	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	Rough Terrain Forklifts	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	Skid Steer Loaders	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	Tractors/Loaders/Backhoes	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	Welders	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	Cranes	1	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	Rough Terrain Forklifts	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	Skid Steer Loaders	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	Tractors/Loaders/Backhoes	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	Welders	2	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

1. Emission factor based on CalEEMod default value.
2. Emissions account for dust control reduction from water application 3 times per day.
3. Bulldozing emissions are only calculated for Rubber Tired Dozers which is consistent with CalEEMod methodology.

FD = Fugitive Dust

EXH = Exhaust

Sepulveda Transit Corridor Project - ALTERNATIVE 4

Dust Control Reduction 74%

GRADING FUGITIVE DUST (ONSITE)

													Grading EF (lb/VMT)[3]						Daily Emissions (lb/day)[4,5]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	Acres Graded per 8-hr day	Scaling Factor[1]	Acres per day	Daily VMT[2]	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	Air Compressors	1	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	Concrete/Industrial Saws	2	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	Rough Terrain Forklifts	1	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	Skid Steer Loaders	2	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	Tractors/Loaders/Backhoes	2	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	Bore/Drill Rigs	2	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	Cranes	2	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	Pumps	2	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	Rough Terrain Forklifts	2	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	Tractors/Loaders/Backhoes	2	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	Cranes	2	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	Excavators	2	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	Rough Terrain Forklifts	2	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	Tractors/Loaders/Backhoes	2	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	Cranes	2	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	Generator Sets	2	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	Pumps	2	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	Rough Terrain Forklifts	2	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	Cranes	4	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	Generator Sets	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	Pumps	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	Tractors/Loaders/Backhoes	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	Welders	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	Aerial Lifts	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	Cranes	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	Rough Terrain Forklifts	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	Tunnel Boring Machine (TBM	1	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	Tractors/Loaders/Backhoes	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	Cranes	4	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	Generator Sets	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	Pumps	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	Tractors/Loaders/Backhoes	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	Welders	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	2/13/2030	4/13/2032	7	791	20	Aerial Lifts	1	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	2/13/2030	4/13/2032	7	791	20	Air Compressors	1	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	2/13/2030	4/13/2032	7	791	20	Rollers	1	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenur	4/14/2032	9/30/2033	7	535	20	Aerial Lifts	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenur	4/14/2032	9/30/2033	7	535	20	Cement and Mortar Mixers	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installatio	10/1/2033	5/15/2034	7	227	20	Aerial Lifts	1	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installatio	10/1/2033	5/15/2034	7	227	20	Air Compressors	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installatio	10/1/2033	5/15/2034	7	227	20	Generator Sets	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installatio	10/1/2033	5/15/2034	7	227	20	Welders	3	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	Air Compressors	1	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	Concrete/Industrial Saws	2	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	Rough Terrain Forklifts	1	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	Skid Steer Loaders	2	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	Tractors/Loaders/Backhoes	2	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	Bore/Drill Rigs	2	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	Cranes	2	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	Pumps	2	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	Rough Terrain Forklifts	2	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	Tractors/Loaders/Backhoes	2	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	Cranes	2	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	Excavators	2	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	Rough Terrain Forklifts	2	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	Tractors/Loaders/Backhoes	2	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	Cranes	2	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	Generator Sets	2	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	Pumps	2	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	Rough Terrain Forklifts	2	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	Cranes	4	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	Generator Sets	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	Pumps	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	Tractors/Loaders/Backhoes	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	Welders	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	Aerial Lifts	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	Cranes	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	Rough Terrain Forklifts	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	Tunnel Boring Machine (TBM	1	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	Tractors/Loaders/Backhoes	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	Cranes	4	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	Generator Sets	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	Pumps	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	Tractors/Loaders/Backhoes	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	Welders	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 4 Dust Control Reduction 74%

GRADING FUGITIVE DUST (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	Acres Graded per 8-hr day	Scaling Factor[1]	Acres per day	Daily VMT[2]	Grading EF (lb/VMT)[3]						Daily Emissions (lb/day)[4,5]						Total Emissions (tons)					
													PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Fill	3/1/2029	12/31/2032	7	1402	20	Aerial Lifts	1	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Fill	3/1/2029	12/31/2032	7	1402	20	Air Compressors	1	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Fill	3/1/2029	12/31/2032	7	1402	20	Rollers	1	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Slabs, Walkways, Plenum	9/3/2032	8/31/2034	7	728	20	Aerial Lifts	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Slabs, Walkways, Plenum	9/3/2032	8/31/2034	7	728	20	Cement and Mortar Mixers	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	Aerial Lifts	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	Air Compressors	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	Generator Sets	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	Rough Terrain Forklifts	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	Air Compressors	1	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	Concrete/Industrial Saws	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	Rough Terrain Forklifts	1	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	Skid Steer Loaders	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	Tractors/Loaders/Backhoes	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	Aerial Lifts	4	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	Bore/Drill Rigs	4	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	Cranes	4	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	Pumps	4	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	Rollers	4	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	Rough Terrain Forklifts	4	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	Aerial Lifts	4	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	Cranes	4	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	Pumps	4	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	Rough Terrain Forklifts	4	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	Aerial Lifts	4	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	Cranes	4	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	Pumps	4	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	Rough Terrain Forklifts	4	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	11/20/2030	1/15/2031	6	49	20	Aerial Lifts	4	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	11/20/2030	1/15/2031	6	49	20	Cranes	4	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	11/20/2030	1/15/2031	6	49	20	Rough Terrain Forklifts	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	Aerial Lifts	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	Cranes	4	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	Excavators	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	Other Construction Equipme	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	1/5/2034	2/3/2034	6	26	20	Aerial Lifts	4	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	1/5/2034	2/3/2034	6	26	20	Cranes	4	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	1/5/2034	2/3/2034	6	26	20	Rough Terrain Forklifts	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	Aerial Lifts	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	Air Compressors	4	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	Generator Sets	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	Skid Steer Loaders	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	Welders	3	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	Air Compressors	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	Generator Sets	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	Cranes	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	Welders	3	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	8/18/2032	8/15/2033	6	311	20	Pavers	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	8/18/2032	8/15/2033	6	311	20	Paving Equipment	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	8/18/2032	8/15/2033	6	311	20	Rollers	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	Air Compressors	1	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	Concrete/Industrial Saws	2	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	Rough Terrain Forklifts	1	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	Skid Steer Loaders	2	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	Tractors/Loaders/Backhoes	2	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	Cranes	1	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	Rough Terrain Forklifts	1	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	Skid Steer Loaders	1	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	Tractors/Loaders/Backhoes	1	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	Welders	1	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	Air Compressors	1	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	Concrete/Industrial Saws	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	Rough Terrain Forklifts	1	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	Skid Steer Loaders	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	Tractors/Loaders/Backhoes	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	Bore/Drill Rigs	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	Cranes	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	Pumps	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	Rough Terrain Forklifts	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	Tractors/Loaders/Backhoes	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	Aerial Lifts	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	Cranes	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	Excavators	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	Tractors/Loaders/Backhoes	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-TBM Pass Through-Maintenance	6/1/2030	7/31/2030	6	52	20	Cranes	1	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-TBM Pass Through-Maintenance	6/1/2030	7/31/2030	6	52	20	Generator Sets	1	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	Aerial Lifts	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	Cranes	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	Excavators	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	Pumps	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	Skid Steer Loaders	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	Tractors/Loaders/Backhoes	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 4 Dust Control Reduction 74%

GRADING FUGITIVE DUST (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	Acres Graded per 8-hr day	Scaling Factor[1]	Acres per day	Daily VMT[2]	Grading EF (lb/VMT)[3] PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	Daily Emissions (lb/day)[4,5] PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	Total Emissions (tons) PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	Aerial Lifts	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	Cement and Mortar Mixers	1	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	Generator Sets	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	Pumps	1	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	Welders	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	Aerial Lifts	1	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	Air Compressors	1	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	Pavers	1	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	Paving Equipment	1	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	Rollers	1	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	Air Compressors	1	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	Concrete/Industrial Saws	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	Rough Terrain Forklifts	1	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	Skid Steer Loaders	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	Tractors/Loaders/Backhoes	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	Bore/Drill Rigs	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	Cranes	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	Pumps	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	Rough Terrain Forklifts	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	Tractors/Loaders/Backhoes	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	Aerial Lifts	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	Cranes	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	Excavators	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	Tractors/Loaders/Backhoes	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-TBM Pass Through-Maintenance	1/1/2031	2/28/2031	6	51	20	Cranes	1	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-TBM Pass Through-Maintenance	1/1/2031	2/28/2031	6	51	20	Generator Sets	1	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	Aerial Lifts	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	Cranes	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	Excavators	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	Pumps	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	Skid Steer Loaders	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	Tractors/Loaders/Backhoes	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	Aerial Lifts	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	Cement and Mortar Mixers	1	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	Generator Sets	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	Pumps	1	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	Welders	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	Air Compressors	1	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	Concrete/Industrial Saws	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	Rough Terrain Forklifts	1	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	Skid Steer Loaders	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	Tractors/Loaders/Backhoes	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	Bore/Drill Rigs	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	Cranes	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	Pumps	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	Rough Terrain Forklifts	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	Tractors/Loaders/Backhoes	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	Aerial Lifts	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	Cranes	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	Excavators	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	Tractors/Loaders/Backhoes	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-TBM Pass Through-Maintenance	8/1/2031	9/30/2031	6	52	20	Cranes	1	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-TBM Pass Through-Maintenance	8/1/2031	9/30/2031	6	52	20	Generator Sets	1	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	Aerial Lifts	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	Cranes	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	Excavators	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	Pumps	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	Skid Steer Loaders	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	Tractors/Loaders/Backhoes	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	Aerial Lifts	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	Cement and Mortar Mixers	1	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	Generator Sets	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	Pumps	1	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	Welders	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	Air Compressors	1	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	Concrete/Industrial Saws	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	Rough Terrain Forklifts	1	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	Skid Steer Loaders	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	Tractors/Loaders/Backhoes	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	Bore/Drill Rigs	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	Cranes	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	Pumps	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	Rough Terrain Forklifts	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	Tractors/Loaders/Backhoes	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	Aerial Lifts	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	Cranes	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	Excavators	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	Tractors/Loaders/Backhoes	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 4

Dust Control Reduction 74%

GRADING FUGITIVE DUST (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	Acres Graded per 8-hr day	Scaling Factor[1]	Acres per day	Daily VMT[2]	Grading EF (lb/VMT)[3]						Daily Emissions (lb/day)[4,5]						Total Emissions (tons)					
													PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	Aerial Lifts	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	Cranes	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	Excavators	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	Pumps	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	Skid Steer Loaders	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	Tractors/Loaders/Backhoes	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	Aerial Lifts	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	Cranes	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	Excavators	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	Pumps	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	Skid Steer Loaders	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	Tractors/Loaders/Backhoes	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	Aerial Lifts	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	Cement and Mortar Mixers	1	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	Generator Sets	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	Pumps	1	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	Welders	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	Air Compressors	1	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	Concrete/Industrial Saws	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	Rough Terrain Forklifts	1	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	Skid Steer Loaders	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	Tractors/Loaders/Backhoes	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	Bore/Drill Rigs	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	Cranes	3	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	Pumps	3	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	Rough Terrain Forklifts	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	Tractors/Loaders/Backhoes	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	Aerial Lifts	4	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	Cranes	4	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	Other Construction Equipme	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	Rough Terrain Forklifts	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	Welders	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	Aerial Lifts	4	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	Air Compressors	4	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	Cranes	4	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	Other Construction Equipme	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	Rough Terrain Forklifts	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	Welders	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	Aerial Lifts	1	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	Air Compressors	1	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	Pavers	1	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	Paving Equipment	1	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	Rollers	1	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	Air Compressors	1	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	Concrete/Industrial Saws	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	Rough Terrain Forklifts	1	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	Skid Steer Loaders	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	Tractors/Loaders/Backhoes	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	Bore/Drill Rigs	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	Cranes	3	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	Pumps	3	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	Rough Terrain Forklifts	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	Tractors/Loaders/Backhoes	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	Aerial Lifts	4	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	Cranes	4	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	Other Construction Equipme	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	Rough Terrain Forklifts	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	Welders	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	Aerial Lifts	4	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	Air Compressors	4	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	Cranes	4	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	Other Construction Equipme	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	Rough Terrain Forklifts	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	Welders	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	Air Compressors	1	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	Concrete/Industrial Saws	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	Rough Terrain Forklifts	1	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	Skid Steer Loaders	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	Tractors/Loaders/Backhoes	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	Bore/Drill Rigs	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	Cranes	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	Pumps	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	Rough Terrain Forklifts	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	Tractors/Loaders/Backhoes	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	Aerial Lifts	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	Cranes	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	Excavators	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	Pumps	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	Skid Steer Loaders	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	Tractors/Loaders/Backhoes	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 4 Dust Control Reduction 74%

GRADING FUGITIVE DUST (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	Acres Graded per 8-hr day	Scaling Factor[1]	Acres per day	Daily VMT[2]	Grading EF (lb/VMT)[3] PM10 FD	PM10 EXH	PM10 Total	PM2.5 FD	PM2.5 EXH	PM2.5 Total	Daily Emissions (lb/day)[4,5] PM10 FD	PM10 EXH	PM10 Total	PM2.5 FD	PM2.5 EXH	PM2.5 Total	Total Emissions (tons) PM10 FD	PM10 EXH	PM10 Total	PM2.5 FD	PM2.5 EXH	PM2.5 Total
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	Aerial Lifts	4	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	Air Compressors	4	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	Cranes	4	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	Other Construction Equipme	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	Rough Terrain Forklifts	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	Welders	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	Aerial Lifts	1	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	Air Compressors	1	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	Pavers	1	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	Paving Equipment	1	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	Rollers	1	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	Air Compressors	1	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	Concrete/Industrial Saws	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	Rough Terrain Forklifts	1	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	Skid Steer Loaders	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	Tractors/Loaders/Backhoes	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	Bore/Drill Rigs	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	Cranes	3	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	Pumps	3	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	Rough Terrain Forklifts	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	Tractors/Loaders/Backhoes	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	Aerial Lifts	4	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	Cranes	4	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	Other Construction Equipme	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	Rough Terrain Forklifts	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	Welders	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	Aerial Lifts	4	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	Air Compressors	4	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	Cranes	4	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	Other Construction Equipme	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	Rough Terrain Forklifts	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	Welders	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	Aerial Lifts	1	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	Air Compressors	1	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	Pavers	1	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	Paving Equipment	1	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	Rollers	1	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	Trenchers	1	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	Skid Steer Loaders	1	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	Tractors/Loaders/Backhoes	1	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	Cranes	1	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	Pumps	1	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	Tractors/Loaders/Backhoes	1	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	Aerial Lifts	1	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	Cranes	1	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	Rough Terrain Forklifts	1	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	Welders	1	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	Air Compressors	1	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	Generator Sets	1	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	Skid Steer Loaders	1	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	Concrete/Industrial Saws	1	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	Excavators	3	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	Rubber Tired Dozers	2	7.5	0.50	8	0.94	0.64	1.54	-	1.54	0.17	-	0.17	0.26	-	0.26	0.03	-	0.03	0.01	-	0.01	0.00	-	0.00
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	Rubber Tired Dozers	3	7.5	0.50	8	1.41	0.97	1.54	-	1.54	0.17	-	0.17	0.39	-	0.39	0.04	-	0.04	0.01	-	0.01	0.00	-	0.00
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	Tractors/Loaders/Backhoes	4	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Grading	3/1/2032	7/31/2032	6	132	10	Excavators	2	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Grading	3/1/2032	7/31/2032	6	132	10	Graders	1	7.5	0.50	8	0.47	0.32	1.54	-	1.54	0.17	-	0.17	0.13	-	0.13	0.01	-	0.01	0.01	-	0.01	0.00	-	0.00
MSF-Grading	3/1/2032	7/31/2032	6	132	10	Rubber Tired Dozers	1	7.5	0.50	8	0.47	0.32	1.54	-	1.54	0.17	-	0.17	0.13	-	0.13	0.01	-	0.01	0.01	-	0.01	0.00	-	0.00
MSF-Grading	3/1/2032	7/31/2032	6	132	10	Scrapers	2	7.5	1.00	8	1.88	1.29	1.54	-	1.54	0.17	-	0.17	0.52	-	0.52	0.06	-	0.06	0.03	-	0.03	0.00	-	0.00
MSF-Grading	3/1/2032	7/31/2032	6	132	10	Tractors/Loaders/Backhoes	2	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	Cranes	1	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	Forklifts	3	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	Generator Sets	1	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	Tractors/Loaders/Backhoes	3	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	Welders	1	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Paving	12/1/2034	1/30/2035	6	52	10	Pavers	2	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Paving	12/1/2034	1/30/2035	6	52	10	Paving Equipment	2	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Paving	12/1/2034	1/30/2035	6	52	10	Rollers	2	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	Air Compressors	1	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	Aerial Lifts	2	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	Rough Terrain Forklifts	2	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	Welders	2	7.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	Cranes	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	Cement and Mortar Mixers	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	Generator Sets	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	Other General Industrial Equ	1	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	Pumps	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	Rough Terrain Forklifts	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	Tractors/Loaders/Backhoes	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	Welders	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 4

Dust Control Reduction 74%

GRADING FUGITIVE DUST (ONSITE)

												Grading EF (lb/VMT)[3]						Daily Emissions (lb/day)[4,5]						Total Emissions (tons)					
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Hours per Workday**	**CalEEmod Equipment Type**	**# of Equipment**	**Daily Usage (hr/day)**	**Acres Graded per 8-hr day**	**Scaling Factor[1]**	**Acres per day**	**Daily VMT[2]**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	Cranes	1	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	Rough Terrain Forklifts	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	Skid Steer Loaders	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	Tractors/Loaders/Backhoes	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	Welders	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	Cranes	1	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	Rough Terrain Forklifts	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	Skid Steer Loaders	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	Tractors/Loaders/Backhoes	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	Welders	2	15.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

1. CalEEMod provides the amount of acres that can be graded per 8-hours. The scaling factor is included in case equipment would operate more or less than 8 hours, thus, the amount of area to be graded would be adjusted.
2. Grading VMT based on methodology from CalEEMod which accounts for bladewidth of grading equipment and the amount of area grading equipment can complete in 8-hour day.
3. Emission factor based on CalEEMod default value.
4. Emissions account for dust control reduction from water application 3 times per day.
5. Grading emissions are only calculated for the following equipment types: Crawler Tractors, Graders, Rubber Tired Dozers, and Scrapers. This approach is consistent with CalEEMod methodology.

FD = Fugitive Dust

EXH = Exhaust

Sepulveda Transit Corridor Project - ALTERNATIVE 4

WORKER VEHICLES (OFFSITE)

											Running Emission Factor (g/mile)[1,2]													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Workers per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	2028	Worker	20	40	18.5	0.02	0.08	1.05	0.003	0.32	0.002	0.32	0.08	0.001	0.08	321.36	0.00	0.01
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	2028	Worker	26	52	18.5	0.02	0.08	1.05	0.003	0.32	0.002	0.32	0.08	0.001	0.08	321.36	0.00	0.01
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	2029	Worker	20	40	18.5	0.02	0.07	0.99	0.003	0.32	0.001	0.32	0.08	0.001	0.08	318.17	0.00	0.01
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	2029	Worker	20	40	18.5	0.02	0.07	0.99	0.003	0.32	0.001	0.32	0.08	0.001	0.08	318.17	0.00	0.01
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	2029	Worker	30	60	18.5	0.02	0.07	0.99	0.003	0.32	0.001	0.32	0.08	0.001	0.08	318.17	0.00	0.01
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	2030	Worker	24	48	18.5	0.01	0.06	0.94	0.003	0.32	0.001	0.32	0.08	0.001	0.08	315.30	0.00	0.01
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	2032	Worker	30	60	18.5	0.01	0.05	0.83	0.003	0.32	0.001	0.32	0.08	0.001	0.08	310.19	0.00	0.01
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	2/13/2030	4/13/2032	7	791	20	2030	Worker	8	16	18.5	0.01	0.06	0.94	0.003	0.32	0.001	0.32	0.08	0.001	0.08	315.30	0.00	0.01
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	4/14/2032	9/30/2033	7	535	20	2032	Worker	10	20	18.5	0.01	0.05	0.83	0.003	0.32	0.001	0.32	0.08	0.001	0.08	310.19	0.00	0.01
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	10/1/2033	5/15/2034	7	227	20	2033	Worker	20	40	18.5	0.01	0.05	0.79	0.003	0.32	0.001	0.32	0.08	0.001	0.08	307.92	0.00	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	2027	Worker	20	40	18.5	0.02	0.09	1.12	0.003	0.32	0.002	0.32	0.08	0.002	0.08	324.81	0.00	0.01
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	2027	Worker	26	52	18.5	0.02	0.09	1.12	0.003	0.32	0.002	0.32	0.08	0.002	0.08	324.81	0.00	0.01
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	2028	Worker	20	40	18.5	0.02	0.08	1.05	0.003	0.32	0.002	0.32	0.08	0.001	0.08	321.36	0.00	0.01
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	2028	Worker	20	40	18.5	0.02	0.08	1.05	0.003	0.32	0.002	0.32	0.08	0.001	0.08	321.36	0.00	0.01
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Worker	30	60	18.5	0.02	0.08	1.05	0.003	0.32	0.002	0.32	0.08	0.001	0.08	321.36	0.00	0.01
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	2029	Worker	24	48	18.5	0.02	0.07	0.99	0.003	0.32	0.001	0.32	0.08	0.001	0.08	318.17	0.00	0.01
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	2032	Worker	30	60	18.5	0.01	0.05	0.83	0.003	0.32	0.001	0.32	0.08	0.001	0.08	310.19	0.00	0.01
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Fill	3/1/2029	12/31/2032	7	1402	20	2029	Worker	8	16	18.5	0.02	0.07	0.99	0.003	0.32	0.001	0.32	0.08	0.001	0.08	318.17	0.00	0.01
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Slabs, Walkways, Plenum	9/3/2032	8/31/2034	7	728	20	2032	Worker	10	20	18.5	0.01	0.05	0.83	0.003	0.32	0.001	0.32	0.08	0.001	0.08	310.19	0.00	0.01
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	2034	Worker	20	40	18.5	0.01	0.04	0.75	0.003	0.32	0.001	0.32	0.08	0.001	0.08	305.85	0.00	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	2029	Worker	20	40	18.5	0.02	0.07	0.99	0.003	0.32	0.001	0.32	0.08	0.001	0.08	318.17	0.00	0.01
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	2030	Worker	60	120	18.5	0.01	0.06	0.94	0.003	0.32	0.001	0.32	0.08	0.001	0.08	315.30	0.00	0.01
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	2030	Worker	40	80	18.5	0.01	0.06	0.94	0.003	0.32	0.001	0.32	0.08	0.001	0.08	315.30	0.00	0.01
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	2032	Worker	40	80	18.5	0.01	0.05	0.83	0.003	0.32	0.001	0.32	0.08	0.001	0.08	310.19	0.00	0.01
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	11/20/2030	1/15/2031	6	49	20	2030	Worker	26	52	18.5	0.01	0.06	0.94	0.003	0.32	0.001	0.32	0.08	0.001	0.08	315.30	0.00	0.01
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	2031	Worker	26	52	18.5	0.01	0.06	0.88	0.003	0.32	0.001	0.32	0.08	0.001	0.08	312.62	0.00	0.01
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	1/5/2034	2/3/2034	6	26	20	2034	Worker	26	52	18.5	0.01	0.04	0.75	0.003	0.32	0.001	0.32	0.08	0.001	0.08	305.85	0.00	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	2034	Worker	34	68	18.5	0.01	0.04	0.75	0.003	0.32	0.001	0.32	0.08	0.001	0.08	305.85	0.00	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	2034	Worker	24	48	18.5	0.01	0.04	0.75	0.003	0.32	0.001	0.32	0.08	0.001	0.08	305.85	0.00	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	8/18/2032	8/15/2033	6	311	20	2032	Worker	16	32	18.5	0.01	0.05	0.83	0.003	0.32	0.001	0.32	0.08	0.001	0.08	310.19	0.00	0.01
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Worker	20	40	18.5	0.01	0.06	0.94	0.003	0.32	0.001	0.32	0.08	0.001	0.08	315.30	0.00	0.01
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	2030	Worker	14	28	18.5	0.01	0.06	0.94	0.003	0.32	0.001	0.32	0.08	0.001	0.08	315.30	0.00	0.01
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Worker	20	40	18.5	0.02	0.09	1.12	0.003	0.32	0.002	0.32	0.08	0.002	0.08	324.81	0.00	0.01
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Worker	26	52	18.5	0.02	0.08	1.05	0.003	0.32	0.002	0.32	0.08	0.001	0.08	321.36	0.00	0.01
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	2029	Worker	20	40	18.5	0.02	0.07	0.99	0.003	0.32	0.001	0.32	0.08	0.001	0.08	318.17	0.00	0.01
Metro E Line Stn_U-Alt4-TBM Pass Through-Maintenance	6/1/2030	7/31/2030	6	52	20	2030	Worker	6	12	18.5	0.01	0.06	0.94	0.003	0.32	0.001	0.32	0.08	0.001	0.08	315.30	0.00	0.01
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	2030	Worker	30	60	18.5	0.01	0.06	0.94	0.003	0.32	0.001	0.32	0.08	0.001	0.08	315.30	0.00	0.01
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	2031	Worker	20	40	18.5	0.01	0.06	0.88	0.003	0.32	0.001	0.32	0.08	0.001	0.08	312.62	0.00	0.01
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	2034	Worker	14	28	18.5	0.01	0.04	0.75	0.003	0.32	0.001	0.32	0.08	0.001	0.08	305.85	0.00	0.00
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	2028	Worker	20	40	18.5	0.02	0.08	1.05	0.003	0.32	0.002	0.32	0.08	0.001	0.08	321.36	0.00	0.01
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	2029	Worker	26	52	18.5	0.02	0.07	0.99	0.003	0.32	0.001	0.32	0.08	0.001	0.08	318.17	0.00	0.01
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	2029	Worker	20	40	18.5	0.02	0.07	0.99	0.003	0.32	0.001	0.32	0.08	0.001	0.08	318.17	0.00	0.01
Santa Monica Stn_U-Alt4-TBM Pass Through-Maintenance	1/1/2031	2/28/2031	6	51	20	2031	Worker	6	12	18.5	0.01	0.06	0.88	0.003	0.32	0.001	0.32	0.08	0.001	0.08	312.62	0.00	0.01
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	2030	Worker	30	60	18.5	0.01	0.06	0.94	0.003	0.32	0.001	0.32	0.08	0.001	0.08	315.30	0.00	0.01
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	2032	Worker	20	40	18.5	0.01	0.05	0.83	0.003	0.32	0.001	0.32	0.08	0.001	0.08	310.19	0.00	0.01
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	2029	Worker	20	40	18.5	0.02	0.07	0.99	0.003	0.32	0.001	0.32	0.08	0.001	0.08	318.17	0.00	0.01
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	2029	Worker	26	52	18.5	0.02	0.07	0.99	0.003	0.32	0.001	0.32	0.08	0.001	0.08	318.17	0.00	0.01
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	2030	Worker	20	40	18.5	0.01	0.06	0.94	0.003	0.32	0.001	0.32	0.08	0.001	0.08	315.30	0.00	0.01
D Line Wilshire-Westwood Stn_U-Alt4-TBM Pass Through-Maintenance	8/1/2031	9/30/2031	6	52	20	2031	Worker	6	12	18.5	0.01	0.06	0.88	0.003	0.32	0.001	0.32	0.08	0.001	0.08	312.62	0.00	0.01
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	2031	Worker	30	60	18.5	0.01	0.06	0.88	0.003	0.32	0.001	0.32	0.08	0.001	0.08	312.62	0.00	0.01
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	2032	Worker	20	40	18.5	0.01	0.05	0.83	0.003	0.32	0.001	0.32	0.08	0.001	0.08	310.19	0.00	0.01
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	2028	Worker	20	40	18.5	0.02	0.08	1.05	0.003	0.32	0.002	0.32	0.08	0.001	0.08	321.36	0.00	0.01
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	2029	Worker	26	52	18.5	0.02	0.07	0.99	0.003	0.32	0.001	0.32	0.08	0.001	0.08	318.17	0.00	0.01
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	2029	Worker	20	40	18.5	0.02	0.07	0.99	0.003	0.32	0.001	0.32	0.08	0.001	0.08	318.17	0.00	0.01
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	2030	Worker	30	60	18.5	0.01	0.06	0.94	0.003	0.32	0.001	0.32	0.08	0.001	0.08	315.30	0.00	0.01
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	2032	Worker	30	60	18.5	0.01	0.05	0.83	0.003	0.32	0.001	0.32	0.08	0.001	0.08	310.19	0.00	0.01
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	2033	Worker	20	40	18.5	0.01	0.05	0.79	0.003	0.32	0.001	0.32	0.08	0.001	0.08	307.92	0.00	0.00
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	2031	Worker	20	40	18.5	0.01	0.06	0.88	0.003	0.32	0.001	0.32	0.08	0.001	0.08	312.62	0.00	0.01
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	2032	Worker	30	60	18.5	0.01	0.05	0.83	0.003	0.32	0.001	0.32	0.08	0.001	0.08	310.19	0.00	0.01
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	2033	Worker	36	72	18.5	0.01	0.05	0.79	0.003	0.32	0.001	0.32	0.08	0.001	0.08	307.92	0.00	0.00
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	2033	Worker	46	92	18.5	0.01	0.05	0.79	0.003	0.32	0.001	0.32	0.08	0.001	0.08	307.92	0.00	0.00
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	2035	Worker	14	28	18.5	0.01	0.04	0.72	0.003	0.32	0.001	0.32	0.08	0.001	0.08	304.03	0.00	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 4

WORKER VEHICLES (OFFSITE)

											Non-Running Emission Factor (g/trip)[1,3]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Workers per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	2028	Worker	20	40	18.5	1.26	0.28	3.44	0.001	-	0.002	0.002	-	0.002	0.002	79.4	0.07	0.03
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	2028	Worker	26	52	18.5	1.26	0.28	3.44	0.001	-	0.002	0.002	-	0.002	0.002	79.4	0.07	0.03
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	2029	Worker	20	40	18.5	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.3	0.07	0.03
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	2029	Worker	20	40	18.5	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.3	0.07	0.03
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	2029	Worker	30	60	18.5	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.3	0.07	0.03
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	2030	Worker	24	48	18.5	1.13	0.26	3.06	0.001	-	0.002	0.002	-	0.002	0.002	77.3	0.06	0.03
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	2032	Worker	30	60	18.5	1.02	0.24	2.73	0.001	-	0.002	0.002	-	0.002	0.002	75.5	0.06	0.03
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	2/13/2030	4/13/2032	7	791	20	2030	Worker	8	16	18.5	1.13	0.26	3.06	0.001	-	0.002	0.002	-	0.002	0.002	77.3	0.06	0.03
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	4/14/2032	9/30/2033	7	535	20	2032	Worker	10	20	18.5	1.02	0.24	2.73	0.001	-	0.002	0.002	-	0.002	0.002	75.5	0.06	0.03
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	10/1/2033	5/15/2034	7	227	20	2033	Worker	20	40	18.5	0.98	0.23	2.59	0.001	-	0.002	0.002	-	0.002	0.002	74.6	0.05	0.03
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	2027	Worker	20	40	18.5	1.31	0.30	3.64	0.001	-	0.002	0.002	-	0.002	0.002	80.5	0.08	0.03
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	2027	Worker	26	52	18.5	1.31	0.30	3.64	0.001	-	0.002	0.002	-	0.002	0.002	80.5	0.08	0.03
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	2028	Worker	20	40	18.5	1.26	0.28	3.44	0.001	-	0.002	0.002	-	0.002	0.002	79.4	0.07	0.03
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	2028	Worker	20	40	18.5	1.26	0.28	3.44	0.001	-	0.002	0.002	-	0.002	0.002	79.4	0.07	0.03
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Worker	30	60	18.5	1.26	0.28	3.44	0.001	-	0.002	0.002	-	0.002	0.002	79.4	0.07	0.03
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	2029	Worker	24	48	18.5	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.3	0.07	0.03
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	2032	Worker	30	60	18.5	1.02	0.24	2.73	0.001	-	0.002	0.002	-	0.002	0.002	75.5	0.06	0.03
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Fill	3/1/2029	12/31/2032	7	1402	20	2029	Worker	8	16	18.5	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.3	0.07	0.03
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Slabs, Walkways, Plenum	9/3/2032	8/31/2034	7	728	20	2032	Worker	10	20	18.5	1.02	0.24	2.73	0.001	-	0.002	0.002	-	0.002	0.002	75.5	0.06	0.03
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	2034	Worker	20	40	18.5	0.92	0.22	2.45	0.001	-	0.002	0.002	-	0.001	0.001	73.9	0.05	0.03
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	2029	Worker	20	40	18.5	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.3	0.07	0.03
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	2030	Worker	60	120	18.5	1.13	0.26	3.06	0.001	-	0.002	0.002	-	0.002	0.002	77.3	0.06	0.03
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	2030	Worker	40	80	18.5	1.13	0.26	3.06	0.001	-	0.002	0.002	-	0.002	0.002	77.3	0.06	0.03
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	2032	Worker	40	80	18.5	1.02	0.24	2.73	0.001	-	0.002	0.002	-	0.002	0.002	75.5	0.06	0.03
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	11/20/2030	1/15/2031	6	49	20	2030	Worker	26	52	18.5	1.13	0.26	3.06	0.001	-	0.002	0.002	-	0.002	0.002	77.3	0.06	0.03
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	2031	Worker	26	52	18.5	1.07	0.25	2.88	0.001	-	0.002	0.002	-	0.002	0.002	76.4	0.06	0.03
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	1/5/2034	2/3/2034	6	26	20	2034	Worker	26	52	18.5	0.92	0.22	2.45	0.001	-	0.002	0.002	-	0.001	0.001	73.9	0.05	0.03
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	2034	Worker	34	68	18.5	0.92	0.22	2.45	0.001	-	0.002	0.002	-	0.001	0.001	73.9	0.05	0.03
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	2034	Worker	24	48	18.5	0.92	0.22	2.45	0.001	-	0.002	0.002	-	0.001	0.001	73.9	0.05	0.03
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	8/18/2032	8/15/2033	6	311	20	2032	Worker	16	32	18.5	1.02	0.24	2.73	0.001	-	0.002	0.002	-	0.002	0.002	75.5	0.06	0.03
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Worker	20	40	18.5	1.13	0.26	3.06	0.001	-	0.002	0.002	-	0.002	0.002	77.3	0.06	0.03
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	2030	Worker	14	28	18.5	1.13	0.26	3.06	0.001	-	0.002	0.002	-	0.002	0.002	77.3	0.06	0.03
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Worker	20	40	18.5	1.31	0.30	3.64	0.001	-	0.002	0.002	-	0.002	0.002	80.5	0.08	0.03
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Worker	26	52	18.5	1.26	0.28	3.44	0.001	-	0.002	0.002	-	0.002	0.002	79.4	0.07	0.03
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	2029	Worker	20	40	18.5	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.3	0.07	0.03
Metro E Line Stn_U-Alt4-TBM Pass Through-Maintenance	6/1/2030	7/31/2030	6	52	20	2030	Worker	6	12	18.5	1.13	0.26	3.06	0.001	-	0.002	0.002	-	0.002	0.002	77.3	0.06	0.03
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	2030	Worker	30	60	18.5	1.13	0.26	3.06	0.001	-	0.002	0.002	-	0.002	0.002	77.3	0.06	0.03
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	2031	Worker	20	40	18.5	1.07	0.25	2.88	0.001	-	0.002	0.002	-	0.002	0.002	76.4	0.06	0.03
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	2034	Worker	14	28	18.5	0.92	0.22	2.45	0.001	-	0.002	0.002	-	0.001	0.001	73.9	0.05	0.03
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	2028	Worker	20	40	18.5	1.26	0.28	3.44	0.001	-	0.002	0.002	-	0.002	0.002	79.4	0.07	0.03
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	2029	Worker	26	52	18.5	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.3	0.07	0.03
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	2029	Worker	20	40	18.5	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.3	0.07	0.03
Santa Monica Stn_U-Alt4-TBM Pass Through-Maintenance	1/1/2031	2/28/2031	6	51	20	2031	Worker	6	12	18.5	1.07	0.25	2.88	0.001	-	0.002	0.002	-	0.002	0.002	76.4	0.06	0.03
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	2030	Worker	30	60	18.5	1.13	0.26	3.06	0.001	-	0.002	0.002	-	0.002	0.002	77.3	0.06	0.03
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	2032	Worker	20	40	18.5	1.02	0.24	2.73	0.001	-	0.002	0.002	-	0.002	0.002	75.5	0.06	0.03
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	2029	Worker	20	40	18.5	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.3	0.07	0.03
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	2029	Worker	26	52	18.5	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.3	0.07	0.03
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	2030	Worker	20	40	18.5	1.13	0.26	3.06	0.001	-	0.002	0.002	-	0.002	0.002	77.3	0.06	0.03
D Line Wilshire-Westwood Stn_U-Alt4-TBM Pass Through-Maintenance	8/1/2031	9/30/2031	6	52	20	2031	Worker	6	12	18.5	1.07	0.25	2.88	0.001	-	0.002	0.002	-	0.002	0.002	76.4	0.06	0.03
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	2031	Worker	30	60	18.5	1.07	0.25	2.88	0.001	-	0.002	0.002	-	0.002	0.002	76.4	0.06	0.03
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	2032	Worker	20	40	18.5	1.02	0.24	2.73	0.001	-	0.002	0.002	-	0.002	0.002	75.5	0.06	0.03
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	2028	Worker	20	40	18.5	1.26	0.28	3.44	0.001	-	0.002	0.002	-	0.002	0.002	79.4	0.07	0.03
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	2029	Worker	26	52	18.5	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.3	0.07	0.03
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	2029	Worker	20	40	18.5	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.3	0.07	0.03
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	2030	Worker	30	60	18.5	1.13	0.26	3.06	0.001	-	0.002	0.002	-	0.002	0.002	77.3	0.06	0.03
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	2032	Worker	30	60	18.5	1.02	0.24	2.73	0.001	-	0.002	0.002	-	0.002	0.002	75.5	0.06	0.03
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	2033	Worker	20	40	18.5	0.98	0.23	2.59	0.001	-	0.002	0.002	-	0.002	0.002	74.6	0.05	0.03
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	2031	Worker	20	40	18.5	1.07	0.25	2.88	0.001	-	0.002	0.002	-	0.002	0.002	76.4	0.06	0.03
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	2032	Worker	30	60	18.5	1.02	0.24	2.73	0.001	-	0.002	0.002	-	0.002	0.002	75.5	0.06	0.03
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	2033	Worker	36	72	18.5	0.98	0.23	2.59	0.001	-	0.002	0.002	-	0.002	0.002	74.6	0.05	0.03
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	2033	Worker	46	92	18.5	0.98	0.23	2.59	0.001	-	0.002	0.002	-	0.002	0.002	74.6	0.05	0.03
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	2035	Worker	14	28	18.5	0.91	0.21	2.33	0.001	-	0.001	0.001	-	0.001	0.001	73.1	0.05	0.03

Sepulveda Transit Corridor Project - ALTERNATIVE 4

WORKER VEHICLES (OFFSITE)

											Daily Emissions (lb/day)													
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Hours per Workday**	**EF Year**	**Trip Type**	**Workers per Day**	**Total One-Way Trips per Day**	**One-Way Trip Length (mi)**	**ROG**	**NO_X**	**CO**	**SO_X**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**	**CO_2**	**CH_4**	**N_2O**
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	2028	Worker	20	40	18.5	0.14	0.15	2.02	0.00	0.52	0.003	0.52	0.13	0.003	0.13	531	0.01	0.01
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	2028	Worker	26	52	18.5	0.18	0.20	2.63	0.01	0.67	0.004	0.68	0.17	0.003	0.17	691	0.02	0.02
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	2029	Worker	20	40	18.5	0.13	0.14	1.90	0.00	0.52	0.003	0.52	0.13	0.002	0.13	526	0.01	0.01
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	2029	Worker	20	40	18.5	0.13	0.14	1.90	0.00	0.52	0.003	0.52	0.13	0.002	0.13	526	0.01	0.01
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	2029	Worker	30	60	18.5	0.20	0.21	2.86	0.01	0.78	0.004	0.78	0.20	0.004	0.20	789	0.02	0.02
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	2030	Worker	24	48	18.5	0.15	0.15	2.15	0.01	0.62	0.003	0.63	0.16	0.003	0.16	625	0.01	0.01
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	2032	Worker	30	60	18.5	0.16	0.16	2.40	0.01	0.78	0.003	0.78	0.20	0.003	0.20	769	0.01	0.02
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	2/13/2030	4/13/2032	7	791	20	2030	Worker	8	16	18.5	0.05	0.05	0.72	0.00	0.21	0.001	0.21	0.05	0.001	0.05	208	0.00	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	4/14/2032	9/30/2033	7	535	20	2032	Worker	10	20	18.5	0.05	0.05	0.80	0.00	0.26	0.001	0.26	0.07	0.001	0.07	256	0.00	0.01
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	10/1/2033	5/15/2034	7	227	20	2033	Worker	20	40	18.5	0.10	0.09	1.52	0.00	0.52	0.002	0.52	0.13	0.002	0.13	509	0.01	0.01
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	2027	Worker	20	40	18.5	0.15	0.17	2.15	0.01	0.52	0.003	0.52	0.13	0.003	0.13	537	0.01	0.01
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	2027	Worker	26	52	18.5	0.19	0.21	2.79	0.01	0.67	0.004	0.68	0.17	0.003	0.17	698	0.02	0.02
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	2028	Worker	20	40	18.5	0.14	0.15	2.02	0.00	0.52	0.003	0.52	0.13	0.003	0.13	531	0.01	0.01
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	2028	Worker	20	40	18.5	0.14	0.15	2.02	0.00	0.52	0.003	0.52	0.13	0.003	0.13	531	0.01	0.01
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Worker	30	60	18.5	0.21	0.23	3.04	0.01	0.78	0.004	0.78	0.20	0.004	0.20	797	0.02	0.02
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	2029	Worker	24	48	18.5	0.16	0.17	2.29	0.01	0.62	0.003	0.63	0.16	0.003	0.16	631	0.01	0.02
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	2032	Worker	30	60	18.5	0.16	0.16	2.40	0.01	0.78	0.003	0.78	0.20	0.003	0.20	769	0.01	0.02
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Fill	3/1/2029	12/31/2032	7	1402	20	2029	Worker	8	16	18.5	0.05	0.06	0.76	0.00	0.21	0.001	0.21	0.05	0.001	0.05	210	0.00	0.01
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Slabs, Walkways, Plenum	9/3/2032	8/31/2034	7	728	20	2032	Worker	10	20	18.5	0.05	0.05	0.80	0.00	0.26	0.001	0.26	0.07	0.001	0.07	256	0.00	0.01
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	2034	Worker	20	40	18.5	0.10	0.09	1.44	0.00	0.52	0.002	0.52	0.13	0.002	0.13	505	0.01	0.01
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	2029	Worker	20	40	18.5	0.13	0.14	1.90	0.00	0.52	0.003	0.52	0.13	0.002	0.13	526	0.01	0.01
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	2030	Worker	60	120	18.5	0.37	0.38	5.39	0.01	1.56	0.007	1.56	0.39	0.007	0.40	1564	0.03	0.04
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	2030	Worker	40	80	18.5	0.25	0.25	3.59	0.01	1.04	0.005	1.04	0.26	0.004	0.27	1042	0.02	0.02
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	2032	Worker	40	80	18.5	0.22	0.21	3.20	0.01	1.04	0.004	1.04	0.26	0.004	0.27	1025	0.02	0.02
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	11/20/2030	1/15/2031	6	49	20	2030	Worker	26	52	18.5	0.16	0.16	2.33	0.01	0.67	0.003	0.68	0.17	0.003	0.17	678	0.01	0.02
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	2031	Worker	26	52	18.5	0.15	0.15	2.20	0.01	0.67	0.003	0.68	0.17	0.003	0.17	672	0.01	0.02
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	1/5/2034	2/3/2034	6	26	20	2034	Worker	26	52	18.5	0.13	0.11	1.88	0.01	0.67	0.002	0.68	0.17	0.002	0.17	657	0.01	0.01
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	2034	Worker	34	68	18.5	0.16	0.15	2.46	0.01	0.88	0.003	0.89	0.22	0.003	0.23	859	0.01	0.02
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	2034	Worker	24	48	18.5	0.12	0.10	1.73	0.01	0.62	0.002	0.62	0.16	0.002	0.16	607	0.01	0.01
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	8/18/2032	8/15/2033	6	311	20	2032	Worker	16	32	18.5	0.09	0.08	1.28	0.00	0.42	0.002	0.42	0.11	0.002	0.11	410	0.01	0.01
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Worker	20	40	18.5	0.12	0.13	1.80	0.00	0.52	0.002	0.52	0.13	0.002	0.13	521	0.01	0.01
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	2030	Worker	14	28	18.5	0.09	0.09	1.26	0.00	0.36	0.002	0.36	0.09	0.002	0.09	365	0.01	0.01
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Worker	20	40	18.5	0.15	0.17	2.15	0.01	0.52	0.003	0.52	0.13	0.003	0.13	537	0.01	0.01
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Worker	26	52	18.5	0.18	0.20	2.63	0.01	0.67	0.004	0.68	0.17	0.003	0.17	691	0.02	0.02
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	2029	Worker	20	40	18.5	0.13	0.14	1.90	0.00	0.52	0.003	0.52	0.13	0.002	0.13	526	0.01	0.01
Metro E Line Stn_U-Alt4-TBM Pass Through-Maintenance	6/1/2030	7/31/2030	6	52	20	2030	Worker	6	12	18.5	0.04	0.04	0.54	0.00	0.16	0.001	0.16	0.04	0.001	0.04	156	0.00	0.00
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	2030	Worker	30	60	18.5	0.18	0.19	2.69	0.01	0.78	0.004	0.78	0.20	0.003	0.20	782	0.02	0.02
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	2031	Worker	20	40	18.5	0.12	0.11	1.69	0.00	0.52	0.002	0.52	0.13	0.002	0.13	517	0.01	0.01
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	2034	Worker	14	28	18.5	0.07	0.06	1.01	0.00	0.36	0.001	0.36	0.09	0.001	0.09	354	0.01	0.01
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	2028	Worker	20	40	18.5	0.14	0.15	2.02	0.00	0.52	0.003	0.52	0.13	0.003	0.13	531	0.01	0.01
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	2029	Worker	26	52	18.5	0.17	0.18	2.48	0.01	0.67	0.003	0.68	0.17	0.003	0.17	684	0.02	0.02
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	2029	Worker	20	40	18.5	0.13	0.14	1.90	0.00	0.52	0.003	0.52	0.13	0.002	0.13	526	0.01	0.01
Santa Monica Stn_U-Alt4-TBM Pass Through-Maintenance	1/1/2031	2/28/2031	6	51	20	2031	Worker	6	12	18.5	0.03	0.03	0.51	0.00	0.16	0.001	0.16	0.04	0.001	0.04	155	0.00	0.00
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	2030	Worker	30	60	18.5	0.18	0.19	2.69	0.01	0.78	0.004	0.78	0.20	0.003	0.20	782	0.02	0.02
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	2032	Worker	20	40	18.5	0.11	0.10	1.60	0.00	0.52	0.002	0.52	0.13	0.002	0.13	513	0.01	0.01
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	2029	Worker	20	40	18.5	0.13	0.14	1.90	0.00	0.52	0.003	0.52	0.13	0.002	0.13	526	0.01	0.01
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	2029	Worker	26	52	18.5	0.17	0.18	2.48	0.01	0.67	0.003	0.68	0.17	0.003	0.17	684	0.02	0.02
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	2030	Worker	20	40	18.5	0.12	0.13	1.80	0.00	0.52	0.002	0.52	0.13	0.002	0.13	521	0.01	0.01
D Line Wilshire-Westwood Stn_U-Alt4-TBM Pass Through-Maintenance	8/1/2031	9/30/2031	6	52	20	2031	Worker	6	12	18.5	0.03	0.03	0.51	0.00	0.16	0.001	0.16	0.04	0.001	0.04	155	0.00	0.00
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	2031	Worker	30	60	18.5	0.17	0.17	2.54	0.01	0.78	0.003	0.78	0.20	0.003	0.20	775	0.02	0.02
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	2032	Worker	20	40	18.5	0.11	0.10	1.60	0.00	0.52	0.002	0.52	0.13	0.002	0.13	513	0.01	0.01
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	2028	Worker	20	40	18.5	0.14	0.15	2.02	0.00	0.52	0.003	0.52	0.13	0.003	0.13	531	0.01	0.01
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	2029	Worker	26	52	18.5	0.17	0.18	2.48	0.01	0.67	0.003	0.68	0.17	0.003	0.17	684	0.02	0.02
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	2029	Worker	20	40	18.5	0.13	0.14	1.90	0.00	0.52	0.003	0.52	0.13	0.002	0.13	526	0.01	0.01
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	2030	Worker	30	60	18.5	0.18	0.19	2.69	0.01	0.78	0.004	0.78	0.20	0.003	0.20	782	0.02	0.02
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	2032	Worker	30	60	18.5	0.16	0.16	2.40	0.01	0.78	0.003	0.78	0.20	0.003	0.20	769	0.01	0.02
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	2033	Worker	20	40	18.5	0.10	0.09	1.52	0.00	0.52	0.002	0.52	0.13	0.002	0.13	509	0.01	0.01
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	2031	Worker	20	40	18.5	0.12	0.11	1.69	0.00	0.52	0.002	0.52	0.13	0.002	0.13	517	0.01	0.01
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	2032	Worker	30	60	18.5	0.16	0.16	2.40	0.01	0.78	0.003	0.78	0.20	0.003	0.20	769	0.01	0.02
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	2033	Worker	36	72	18.5	0.19	0.17	2.74	0.01	0.93	0.003	0.94	0.24	0.003	0.24	916	0.02	0.02
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	2033	Worker	46	92	18.5	0.24	0.22	3.50	0.01	1.19	0.004	1.20	0.30	0.004	0.31	1171	0.02	0.02
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	2035	Worker	14	28	18.5	0.07	0.06	0.97	0.00	0.36	0.001	0.36	0.09	0.001	0.09	352	0.01	0.01

Sepulveda Transit Corridor Project - ALTERNATIVE 4

WORKER VEHICLES (OFFSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Workers per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Total Emissions (tons)											Total Emissions (metric tons)			
											ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	2028	Worker	20	40	18.5	0.01	0.01	0.08	0.00	0.02	0.000	0.02	0.01	0.000	0.01	18.8	0.00	0.00	19.0
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	2028	Worker	26	52	18.5	0.01	0.01	0.14	0.00	0.04	0.000	0.04	0.01	0.000	0.01	32.6	0.00	0.00	32.8
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	2029	Worker	20	40	18.5	0.01	0.01	0.10	0.00	0.03	0.000	0.03	0.01	0.000	0.01	24.8	0.00	0.00	25.0
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	2029	Worker	20	40	18.5	0.00	0.00	0.05	0.00	0.01	0.000	0.01	0.00	0.000	0.00	11.7	0.00	0.00	11.8
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	2029	Worker	30	60	18.5	0.01	0.01	0.18	0.00	0.05	0.000	0.05	0.01	0.000	0.01	45.1	0.00	0.00	45.4
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	2030	Worker	24	48	18.5	0.06	0.06	0.85	0.00	0.25	0.001	0.25	0.06	0.001	0.06	224.4	0.00	0.01	226.1
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	2032	Worker	30	60	18.5	0.01	0.01	0.11	0.00	0.04	0.000	0.04	0.01	0.000	0.01	31.7	0.00	0.00	32.0
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	2/13/2030	4/13/2032	7	791	20	2030	Worker	8	16	18.5	0.02	0.02	0.28	0.00	0.08	0.000	0.08	0.02	0.000	0.02	74.8	0.00	0.00	75.4
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	4/14/2032	9/30/2033	7	535	20	2032	Worker	10	20	18.5	0.01	0.01	0.21	0.00	0.07	0.000	0.07	0.02	0.000	0.02	62.2	0.00	0.00	62.6
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	10/1/2033	5/15/2034	7	227	20	2033	Worker	20	40	18.5	0.01	0.01	0.17	0.00	0.06	0.000	0.06	0.01	0.000	0.02	52.4	0.00	0.00	52.7
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	2027	Worker	20	40	18.5	0.01	0.01	0.14	0.00	0.03	0.000	0.03	0.01	0.000	0.01	31.9	0.00	0.00	32.2
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	2027	Worker	26	52	18.5	0.01	0.01	0.15	0.00	0.04	0.000	0.04	0.01	0.000	0.01	33.2	0.00	0.00	33.5
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	2028	Worker	20	40	18.5	0.01	0.01	0.11	0.00	0.03	0.000	0.03	0.01	0.000	0.01	25.1	0.00	0.00	25.3
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	2028	Worker	20	40	18.5	0.00	0.00	0.05	0.00	0.01	0.000	0.01	0.00	0.000	0.00	12.8	0.00	0.00	12.9
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Worker	30	60	18.5	0.01	0.01	0.19	0.00	0.05	0.000	0.05	0.01	0.000	0.01	44.1	0.00	0.00	44.5
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	2029	Worker	24	48	18.5	0.11	0.12	1.59	0.00	0.43	0.002	0.44	0.11	0.002	0.11	399.4	0.01	0.01	402.5
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	2032	Worker	30	60	18.5	0.01	0.01	0.11	0.00	0.04	0.000	0.04	0.01	0.000	0.01	31.4	0.00	0.00	31.6
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Fill	3/1/2029	12/31/2032	7	1402	20	2029	Worker	8	16	18.5	0.04	0.04	0.53	0.00	0.15	0.001	0.15	0.04	0.001	0.04	133.8	0.00	0.00	134.9
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Slabs, Walkways, Plenum	9/3/2032	8/31/2034	7	728	20	2032	Worker	10	20	18.5	0.02	0.02	0.29	0.00	0.09	0.000	0.09	0.02	0.000	0.02	84.7	0.00	0.00	85.2
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	2034	Worker	20	40	18.5	0.02	0.01	0.24	0.00	0.09	0.000	0.09	0.02	0.000	0.02	75.4	0.00	0.00	75.9
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	2029	Worker	20	40	18.5	0.01	0.01	0.20	0.00	0.05	0.000	0.05	0.01	0.000	0.01	49.1	0.00	0.00	49.5
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	2030	Worker	60	120	18.5	0.04	0.04	0.64	0.00	0.18	0.001	0.19	0.05	0.001	0.05	168.1	0.00	0.00	169.4
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	2030	Worker	40	80	18.5	0.11	0.11	1.55	0.00	0.45	0.002	0.45	0.11	0.002	0.12	408.0	0.01	0.01	411.1
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	2032	Worker	40	80	18.5	0.02	0.02	0.29	0.00	0.10	0.000	0.10	0.02	0.000	0.02	85.6	0.00	0.00	86.2
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	11/20/2030	1/15/2031	6	49	20	2030	Worker	26	52	18.5	0.00	0.00	0.06	0.00	0.02	0.000	0.02	0.00	0.000	0.00	15.1	0.00	0.00	15.2
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	2031	Worker	26	52	18.5	0.07	0.07	1.02	0.00	0.31	0.001	0.31	0.08	0.001	0.08	283.4	0.01	0.01	285.4
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	1/5/2034	2/3/2034	6	26	20	2034	Worker	26	52	18.5	0.00	0.00	0.02	0.00	0.01	0.000	0.01	0.00	0.000	0.00	7.7	0.00	0.00	7.8
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	2034	Worker	34	68	18.5	0.02	0.02	0.29	0.00	0.10	0.000	0.10	0.03	0.000	0.03	91.2	0.00	0.00	91.8
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	2034	Worker	24	48	18.5	0.01	0.01	0.13	0.00	0.05	0.000	0.05	0.01	0.000	0.01	42.6	0.00	0.00	42.9
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	8/18/2032	8/15/2033	6	311	20	2032	Worker	16	32	18.5	0.01	0.01	0.20	0.00	0.06	0.000	0.06	0.02	0.000	0.02	57.9	0.00	0.00	58.3
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Worker	20	40	18.5	0.00	0.00	0.05	0.00	0.01	0.000	0.01	0.00	0.000	0.00	13.2	0.00	0.00	13.3
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	2030	Worker	14	28	18.5	0.06	0.07	0.94	0.00	0.27	0.001	0.27	0.07	0.001	0.07	247.1	0.01	0.01	248.9
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Worker	20	40	18.5	0.02	0.02	0.22	0.00	0.05	0.000	0.05	0.01	0.000	0.01	50.7	0.00	0.00	51.1
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Worker	26	52	18.5	0.02	0.03	0.34	0.00	0.09	0.000	0.09	0.02	0.000	0.02	81.8	0.00	0.00	82.4
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	2029	Worker	20	40	18.5	0.02	0.02	0.30	0.00	0.08	0.000	0.08	0.02	0.000	0.02	74.2	0.00	0.00	74.8
Metro E Line Stn_U-Alt4-TBM Pass Through-Maintenance	6/1/2030	7/31/2030	6	52	20	2030	Worker	6	12	18.5	0.00	0.00	0.01	0.00	0.00	0.000	0.00	0.00	0.000	0.00	3.7	0.00	0.00	3.7
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	2030	Worker	30	60	18.5	0.06	0.06	0.84	0.00	0.24	0.001	0.24	0.06	0.001	0.06	221.6	0.00	0.01	223.3
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	2031	Worker	20	40	18.5	0.05	0.04	0.66	0.00	0.20	0.001	0.20	0.05	0.001	0.05	183.8	0.00	0.00	185.1
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	2034	Worker	14	28	18.5	0.00	0.00	0.02	0.00	0.01	0.000	0.01	0.00	0.000	0.00	7.9	0.00	0.00	7.9
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	2028	Worker	20	40	18.5	0.01	0.02	0.21	0.00	0.05	0.000	0.05	0.01	0.000	0.01	49.6	0.00	0.00	50.1
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	2029	Worker	26	52	18.5	0.02	0.02	0.33	0.00	0.09	0.000	0.09	0.02	0.000	0.02	82.2	0.00	0.00	82.8
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	2029	Worker	20	40	18.5	0.02	0.02	0.30	0.00	0.08	0.000	0.08	0.02	0.000	0.02	74.7	0.00	0.00	75.3
Santa Monica Stn_U-Alt4-TBM Pass Through-Maintenance	1/1/2031	2/28/2031	6	51	20	2031	Worker	6	12	18.5	0.00	0.00	0.01	0.00	0.00	0.000	0.00	0.00	0.000	0.00	3.6	0.00	0.00	3.6
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	2030	Worker	30	60	18.5	0.06	0.06	0.83	0.00	0.24	0.001	0.24	0.06	0.001	0.06	219.9	0.00	0.01	221.5
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	2032	Worker	20	40	18.5	0.04	0.04	0.62	0.00	0.20	0.001	0.20	0.05	0.001	0.05	180.2	0.00	0.00	181.5
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	2029	Worker	20	40	18.5	0.01	0.01	0.20	0.00	0.05	0.000	0.05	0.01	0.000	0.01	49.6	0.00	0.00	50.0
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	2029	Worker	26	52	18.5	0.02	0.02	0.33	0.00	0.09	0.000	0.09	0.02	0.000	0.02	81.6	0.00	0.00	82.2
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	2030	Worker	20	40	18.5	0.02	0.02	0.28	0.00	0.08	0.000	0.08	0.02	0.000	0.02	74.0	0.00	0.00	74.6
D Line Wilshire-Westwood Stn_U-Alt4-TBM Pass Through-Maintenance	8/1/2031	9/30/2031	6	52	20	2031	Worker	6	12	18.5	0.00	0.00	0.01	0.00	0.00	0.000	0.00	0.00	0.000	0.00	3.7	0.00	0.00	3.7
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	2031	Worker	30	60	18.5	0.05	0.05	0.69	0.00	0.21	0.001	0.21	0.05	0.001	0.05	191.3	0.00	0.00	192.6
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	2032	Worker	20	40	18.5	0.04	0.04	0.63	0.00	0.20	0.001	0.20	0.05	0.001	0.05	182.8	0.00	0.00	184.0
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	2028	Worker	20	40	18.5	0.01	0.02	0.21	0.00	0.05	0.000	0.05	0.01	0.000	0.01	49.6	0.00	0.00	50.1
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	2029	Worker	26	52	18.5	0.03	0.03	0.45	0.00	0.12	0.001	0.12	0.03	0.001	0.03	113.8	0.00	0.00	114.7
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	2029	Worker	20	40	18.5	0.03	0.03	0.40	0.00	0.11	0.001	0.11	0.03	0.000	0.03	99.0	0.00	0.00	99.8
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	2030	Worker	30	60	18.5	0.04	0.04	0.56	0.00	0.16	0.001	0.16	0.04	0.001	0.04	148.6	0.00	0.00	149.7
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	2032	Worker	30	60	18.5	0.03	0.03	0.43	0.00	0.14	0.001	0.14	0.04	0.001	0.04	125.6	0.00	0.00	126.4
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	2033	Worker	20	40	18.5	0.04	0.04	0.59	0.00	0.20	0.001	0.20	0.05	0.001	0.05	178.7	0.00	0.00	179.9
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	2031	Worker	20	40	18.5	0.01	0.01	0.13	0.00	0.04	0.000	0.04	0.01	0.000	0.01	36.6	0.00	0.00	36.8
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	2032	Worker	30	60	18.5	0.02	0.02	0.32	0.00	0.10	0.000	0.10	0.03	0.000	0.03	91.7	0.00	0.00	92.4
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	2033	Worker	36	72	18.5	0.01	0.01	0.21	0.00	0.07	0.000	0.07	0.02	0.000	0.02	63.6	0.00	0.00	64.0
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	2033	Worker	46	92	18.5	0.06	0.06	0.92	0.00	0.31	0.001	0.31	0.08	0.001	0.08	277.7	0.01	0.01	279.5
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	2035	Worker	14	28	18.5	0.00	0.00	0.03	0.00	0.01	0.000	0.01	0.00	0.000	0.00	8.9	0.00	0.00	9.0

Sepulveda Transit Corridor Project - ALTERNATIVE 4

WORKER VEHICLES (OFFSITE)

											Running Emission Factor (g/mile)[1,2]													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Workers per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	2031	Worker	20	40	18.5	0.01	0.06	0.88	0.003	0.32	0.001	0.32	0.08	0.001	0.08	312.62	0.00	0.01
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	2031	Worker	30	60	18.5	0.01	0.06	0.88	0.003	0.32	0.001	0.32	0.08	0.001	0.08	312.62	0.00	0.01
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	2032	Worker	36	72	18.5	0.01	0.05	0.83	0.003	0.32	0.001	0.32	0.08	0.001	0.08	310.19	0.00	0.01
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	2032	Worker	46	92	18.5	0.01	0.05	0.83	0.003	0.32	0.001	0.32	0.08	0.001	0.08	310.19	0.00	0.01
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	2030	Worker	20	40	18.5	0.01	0.06	0.94	0.003	0.32	0.001	0.32	0.08	0.001	0.08	315.30	0.00	0.01
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	2030	Worker	26	52	18.5	0.01	0.06	0.94	0.003	0.32	0.001	0.32	0.08	0.001	0.08	315.30	0.00	0.01
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	2031	Worker	30	60	18.5	0.01	0.06	0.88	0.003	0.32	0.001	0.32	0.08	0.001	0.08	312.62	0.00	0.01
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	2032	Worker	46	92	18.5	0.01	0.05	0.83	0.003	0.32	0.001	0.32	0.08	0.001	0.08	310.19	0.00	0.01
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	2033	Worker	14	28	18.5	0.01	0.05	0.79	0.003	0.32	0.001	0.32	0.08	0.001	0.08	307.92	0.00	0.00
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	2029	Worker	20	40	18.5	0.02	0.07	0.99	0.003	0.32	0.001	0.32	0.08	0.001	0.08	318.17	0.00	0.01
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	2029	Worker	30	60	18.5	0.02	0.07	0.99	0.003	0.32	0.001	0.32	0.08	0.001	0.08	318.17	0.00	0.01
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	2030	Worker	36	72	18.5	0.01	0.06	0.94	0.003	0.32	0.001	0.32	0.08	0.001	0.08	315.30	0.00	0.01
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	2031	Worker	46	92	18.5	0.01	0.06	0.88	0.003	0.32	0.001	0.32	0.08	0.001	0.08	312.62	0.00	0.01
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	2032	Worker	14	28	18.5	0.01	0.05	0.83	0.003	0.32	0.001	0.32	0.08	0.001	0.08	310.19	0.00	0.01
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Worker	8	16	18.5	0.01	0.04	0.75	0.003	0.32	0.001	0.32	0.08	0.001	0.08	305.85	0.00	0.00
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Worker	8	16	18.5	0.01	0.04	0.75	0.003	0.32	0.001	0.32	0.08	0.001	0.08	305.85	0.00	0.00
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Worker	10	20	18.5	0.01	0.04	0.75	0.003	0.32	0.001	0.32	0.08	0.001	0.08	305.85	0.00	0.00
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Worker	8	16	18.5	0.01	0.04	0.75	0.003	0.32	0.001	0.32	0.08	0.001	0.08	305.85	0.00	0.00
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Worker	16	32	18.5	0.01	0.05	0.83	0.003	0.32	0.001	0.32	0.08	0.001	0.08	310.19	0.00	0.01
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Worker	18	36	18.5	0.01	0.05	0.83	0.003	0.32	0.001	0.32	0.08	0.001	0.08	310.19	0.00	0.01
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Worker	20	40	18.5	0.01	0.05	0.83	0.003	0.32	0.001	0.32	0.08	0.001	0.08	310.19	0.00	0.01
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Worker	24	48	18.5	0.01	0.05	0.83	0.003	0.32	0.001	0.32	0.08	0.001	0.08	310.19	0.00	0.01
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Worker	16	32	18.5	0.01	0.04	0.75	0.003	0.32	0.001	0.32	0.08	0.001	0.08	305.85	0.00	0.00
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Worker	4	8	18.5	0.01	0.04	0.75	0.003	0.32	0.001	0.32	0.08	0.001	0.08	305.85	0.00	0.00
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Worker	16	32	18.5	0.01	0.05	0.83	0.003	0.32	0.001	0.32	0.08	0.001	0.08	310.19	0.00	0.01
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	2028	Worker	38	76	18.5	0.02	0.08	1.05	0.003	0.32	0.002	0.32	0.08	0.001	0.08	321.36	0.00	0.01
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Worker	24	48	18.5	0.02	0.08	1.05	0.003	0.32	0.002	0.32	0.08	0.001	0.08	321.36	0.00	0.01
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Worker	24	48	18.5	0.02	0.08	1.05	0.003	0.32	0.002	0.32	0.08	0.001	0.08	321.36	0.00	0.01

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Fleet Mix:** Light-Duty Mix (25% LDA/50% LDT1/25% LDT2); **Fuel Type:** Gasoline

2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.

3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 4

WORKER VEHICLES (OFFSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Workers per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Non-Running Emission Factor (g/trip)[1,3]												
											ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	2031	Worker	20	40	18.5	1.07	0.25	2.88	0.001	-	0.002	0.002	-	0.002	0.002	76.4	0.06	0.03
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	2031	Worker	30	60	18.5	1.07	0.25	2.88	0.001	-	0.002	0.002	-	0.002	0.002	76.4	0.06	0.03
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	2032	Worker	36	72	18.5	1.02	0.24	2.73	0.001	-	0.002	0.002	-	0.002	0.002	75.5	0.06	0.03
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	2032	Worker	46	92	18.5	1.02	0.24	2.73	0.001	-	0.002	0.002	-	0.002	0.002	75.5	0.06	0.03
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	2030	Worker	20	40	18.5	1.13	0.26	3.06	0.001	-	0.002	0.002	-	0.002	0.002	77.3	0.06	0.03
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	2030	Worker	26	52	18.5	1.13	0.26	3.06	0.001	-	0.002	0.002	-	0.002	0.002	77.3	0.06	0.03
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	2031	Worker	30	60	18.5	1.07	0.25	2.88	0.001	-	0.002	0.002	-	0.002	0.002	76.4	0.06	0.03
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	2032	Worker	46	92	18.5	1.02	0.24	2.73	0.001	-	0.002	0.002	-	0.002	0.002	75.5	0.06	0.03
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	2033	Worker	14	28	18.5	0.98	0.23	2.59	0.001	-	0.002	0.002	-	0.002	0.002	74.6	0.05	0.03
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	2029	Worker	20	40	18.5	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.3	0.07	0.03
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	2029	Worker	30	60	18.5	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.3	0.07	0.03
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	2030	Worker	36	72	18.5	1.13	0.26	3.06	0.001	-	0.002	0.002	-	0.002	0.002	77.3	0.06	0.03
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	2031	Worker	46	92	18.5	1.07	0.25	2.88	0.001	-	0.002	0.002	-	0.002	0.002	76.4	0.06	0.03
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	2032	Worker	14	28	18.5	1.02	0.24	2.73	0.001	-	0.002	0.002	-	0.002	0.002	75.5	0.06	0.03
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Worker	8	16	18.5	0.92	0.22	2.45	0.001	-	0.002	0.002	-	0.001	0.001	73.9	0.05	0.03
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Worker	8	16	18.5	0.92	0.22	2.45	0.001	-	0.002	0.002	-	0.001	0.001	73.9	0.05	0.03
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Worker	10	20	18.5	0.92	0.22	2.45	0.001	-	0.002	0.002	-	0.001	0.001	73.9	0.05	0.03
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Worker	8	16	18.5	0.92	0.22	2.45	0.001	-	0.002	0.002	-	0.001	0.001	73.9	0.05	0.03
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Worker	16	32	18.5	1.02	0.24	2.73	0.001	-	0.002	0.002	-	0.002	0.002	75.5	0.06	0.03
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Worker	18	36	18.5	1.02	0.24	2.73	0.001	-	0.002	0.002	-	0.002	0.002	75.5	0.06	0.03
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Worker	20	40	18.5	1.02	0.24	2.73	0.001	-	0.002	0.002	-	0.002	0.002	75.5	0.06	0.03
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Worker	24	48	18.5	1.02	0.24	2.73	0.001	-	0.002	0.002	-	0.002	0.002	75.5	0.06	0.03
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Worker	16	32	18.5	0.92	0.22	2.45	0.001	-	0.002	0.002	-	0.001	0.001	73.9	0.05	0.03
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Worker	4	8	18.5	0.92	0.22	2.45	0.001	-	0.002	0.002	-	0.001	0.001	73.9	0.05	0.03
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Worker	16	32	18.5	1.02	0.24	2.73	0.001	-	0.002	0.002	-	0.002	0.002	75.5	0.06	0.03
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	2028	Worker	38	76	18.5	1.26	0.28	3.44	0.001	-	0.002	0.002	-	0.002	0.002	79.4	0.07	0.03
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Worker	24	48	18.5	1.26	0.28	3.44	0.001	-	0.002	0.002	-	0.002	0.002	79.4	0.07	0.03
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Worker	24	48	18.5	1.26	0.28	3.44	0.001	-	0.002	0.002	-	0.002	0.002	79.4	0.07	0.03

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Fleet Mix:** Light-Duty Mix (25% LDA/50% LDT1/25% LDT2); **Fuel Type:** Gasoline

2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.

3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 4

WORKER VEHICLES (OFFSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Workers per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Daily Emissions (lb/day)												
											ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	2031	Worker	20	40	18.5	0.12	0.11	1.69	0.00	0.52	0.002	0.52	0.13	0.002	0.13	517	0.01	0.01
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	2031	Worker	30	60	18.5	0.17	0.17	2.54	0.01	0.78	0.003	0.78	0.20	0.003	0.20	775	0.02	0.02
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	2032	Worker	36	72	18.5	0.20	0.19	2.88	0.01	0.93	0.004	0.94	0.24	0.003	0.24	923	0.02	0.02
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	2032	Worker	46	92	18.5	0.25	0.24	3.68	0.01	1.19	0.005	1.20	0.30	0.004	0.31	1179	0.02	0.03
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	2030	Worker	20	40	18.5	0.12	0.13	1.80	0.00	0.52	0.002	0.52	0.13	0.002	0.13	521	0.01	0.01
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	2030	Worker	26	52	18.5	0.16	0.16	2.33	0.01	0.67	0.003	0.68	0.17	0.003	0.17	678	0.01	0.02
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	2031	Worker	30	60	18.5	0.17	0.17	2.54	0.01	0.78	0.003	0.78	0.20	0.003	0.20	775	0.02	0.02
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	2032	Worker	46	92	18.5	0.25	0.24	3.68	0.01	1.19	0.005	1.20	0.30	0.004	0.31	1179	0.02	0.03
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	2033	Worker	14	28	18.5	0.07	0.07	1.07	0.00	0.36	0.001	0.36	0.09	0.001	0.09	356	0.01	0.01
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	2029	Worker	20	40	18.5	0.13	0.14	1.90	0.00	0.52	0.003	0.52	0.13	0.002	0.13	526	0.01	0.01
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	2029	Worker	30	60	18.5	0.20	0.21	2.86	0.01	0.78	0.004	0.78	0.20	0.004	0.20	789	0.02	0.02
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	2030	Worker	36	72	18.5	0.22	0.23	3.23	0.01	0.93	0.004	0.94	0.24	0.004	0.24	938	0.02	0.02
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	2031	Worker	46	92	18.5	0.27	0.26	3.89	0.01	1.19	0.005	1.20	0.30	0.005	0.31	1189	0.02	0.03
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	2032	Worker	14	28	18.5	0.08	0.07	1.12	0.00	0.36	0.001	0.36	0.09	0.001	0.09	359	0.01	0.01
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Worker	8	16	18.5	0.04	0.03	0.58	0.00	0.21	0.001	0.21	0.05	0.001	0.05	202	0.00	0.00
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Worker	8	16	18.5	0.04	0.03	0.58	0.00	0.21	0.001	0.21	0.05	0.001	0.05	202	0.00	0.00
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Worker	10	20	18.5	0.05	0.04	0.72	0.00	0.26	0.001	0.26	0.07	0.001	0.07	253	0.00	0.01
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Worker	8	16	18.5	0.04	0.03	0.58	0.00	0.21	0.001	0.21	0.05	0.001	0.05	202	0.00	0.00
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Worker	16	32	18.5	0.09	0.08	1.28	0.00	0.42	0.002	0.42	0.11	0.002	0.11	410	0.01	0.01
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Worker	18	36	18.5	0.10	0.09	1.44	0.00	0.47	0.002	0.47	0.12	0.002	0.12	461	0.01	0.01
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Worker	20	40	18.5	0.11	0.10	1.60	0.00	0.52	0.002	0.52	0.13	0.002	0.13	513	0.01	0.01
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Worker	24	48	18.5	0.13	0.12	1.92	0.01	0.62	0.002	0.63	0.16	0.002	0.16	615	0.01	0.01
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Worker	16	32	18.5	0.08	0.07	1.16	0.00	0.42	0.001	0.42	0.11	0.001	0.11	404	0.01	0.01
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Worker	4	8	18.5	0.02	0.02	0.29	0.00	0.10	0.000	0.10	0.03	0.000	0.03	101	0.00	0.00
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Worker	16	32	18.5	0.09	0.08	1.28	0.00	0.42	0.002	0.42	0.11	0.002	0.11	410	0.01	0.01
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	2028	Worker	38	76	18.5	0.27	0.29	3.85	0.01	0.99	0.005	0.99	0.25	0.005	0.25	1009	0.03	0.03
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Worker	24	48	18.5	0.17	0.18	2.43	0.01	0.62	0.003	0.63	0.16	0.003	0.16	638	0.02	0.02
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Worker	24	48	18.5	0.17	0.18	2.43	0.01	0.62	0.003	0.63	0.16	0.003	0.16	638	0.02	0.02

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Fleet Mix:** Light-Duty Mix (25% LDA/50% LDT1/25% LDT2); **Fuel Type:** Gasoline
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 4

WORKER VEHICLES (OFFSITE)

											Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Workers per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	2031	Worker	20	40	18.5	0.01	0.01	0.13	0.00	0.04	0.000	0.04	0.01	0.000	0.01	35.9	0.00	0.00	36.1
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	2031	Worker	30	60	18.5	0.02	0.02	0.27	0.00	0.08	0.000	0.08	0.02	0.000	0.02	74.2	0.00	0.00	74.7
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	2032	Worker	36	72	18.5	0.01	0.01	0.19	0.00	0.06	0.000	0.06	0.02	0.000	0.02	54.4	0.00	0.00	54.8
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	2032	Worker	46	92	18.5	0.07	0.07	1.06	0.00	0.34	0.001	0.34	0.09	0.001	0.09	307.0	0.01	0.01	309.1
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	2030	Worker	20	40	18.5	0.01	0.01	0.14	0.00	0.04	0.000	0.04	0.01	0.000	0.01	36.6	0.00	0.00	36.9
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	2030	Worker	26	52	18.5	0.01	0.01	0.15	0.00	0.04	0.000	0.04	0.01	0.000	0.01	40.3	0.00	0.00	40.6
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	2031	Worker	30	60	18.5	0.02	0.02	0.30	0.00	0.09	0.000	0.09	0.02	0.000	0.02	82.6	0.00	0.00	83.2
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	2032	Worker	46	92	18.5	0.07	0.07	1.02	0.00	0.33	0.001	0.33	0.08	0.001	0.08	295.3	0.01	0.01	297.3
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	2033	Worker	14	28	18.5	0.00	0.00	0.03	0.00	0.01	0.000	0.01	0.00	0.000	0.00	8.6	0.00	0.00	8.6
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	2029	Worker	20	40	18.5	0.01	0.01	0.15	0.00	0.04	0.000	0.04	0.01	0.000	0.01	36.7	0.00	0.00	37.0
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	2029	Worker	30	60	18.5	0.01	0.01	0.19	0.00	0.05	0.000	0.05	0.01	0.000	0.01	47.6	0.00	0.00	48.0
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	2030	Worker	36	72	18.5	0.03	0.03	0.38	0.00	0.11	0.001	0.11	0.03	0.000	0.03	99.2	0.00	0.00	99.9
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	2031	Worker	46	92	18.5	0.08	0.08	1.12	0.00	0.34	0.001	0.35	0.09	0.001	0.09	311.1	0.01	0.01	313.3
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	2032	Worker	14	28	18.5	0.00	0.00	0.03	0.00	0.01	0.000	0.01	0.00	0.000	0.00	8.6	0.00	0.00	8.7
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Worker	8	16	18.5	0.00	0.00	0.02	0.00	0.01	0.000	0.01	0.00	0.000	0.00	7.1	0.00	0.00	7.1
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Worker	8	16	18.5	0.00	0.00	0.03	0.00	0.01	0.000	0.01	0.00	0.000	0.00	9.5	0.00	0.00	9.6
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Worker	10	20	18.5	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	0.7	0.00	0.00	0.7
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Worker	8	16	18.5	0.00	0.00	0.01	0.00	0.00	0.000	0.00	0.00	0.000	0.00	1.9	0.00	0.00	1.9
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Worker	16	32	18.5	0.00	0.00	0.05	0.00	0.02	0.000	0.02	0.00	0.000	0.00	14.3	0.00	0.00	14.4
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Worker	18	36	18.5	0.00	0.00	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	10.9	0.00	0.00	11.0
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Worker	20	40	18.5	0.01	0.01	0.11	0.00	0.03	0.000	0.03	0.01	0.000	0.01	30.7	0.00	0.00	30.9
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Worker	24	48	18.5	0.05	0.05	0.75	0.00	0.24	0.001	0.24	0.06	0.001	0.06	218.2	0.00	0.00	219.7
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Worker	16	32	18.5	0.00	0.00	0.03	0.00	0.01	0.000	0.01	0.00	0.000	0.00	9.5	0.00	0.00	9.6
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Worker	4	8	18.5	0.00	0.00	0.01	0.00	0.00	0.000	0.00	0.00	0.000	0.00	3.6	0.00	0.00	3.6
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Worker	16	32	18.5	0.03	0.03	0.40	0.00	0.13	0.001	0.13	0.03	0.000	0.03	116.5	0.00	0.00	117.3
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	2028	Worker	38	76	18.5	0.19	0.21	2.76	0.01	0.71	0.004	0.71	0.18	0.003	0.18	657.5	0.02	0.02	662.9
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Worker	24	48	18.5	0.25	0.27	3.61	0.01	0.93	0.005	0.93	0.23	0.004	0.24	859.7	0.02	0.02	866.8
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Worker	24	48	18.5	0.21	0.23	3.04	0.01	0.78	0.004	0.78	0.20	0.004	0.20	724.1	0.02	0.02	730.1

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Fleet Mix:** Light-Duty Mix (25% LDA/50% LDT1/25% LDT2); **Fuel Type:** Gasoline
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 4

SOIL/MATERIAL HAUL TRUCKS (ONSITE)

											Running Emission Factor (g/mile)[1,2,4]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	2028	Haul	4	4	0.1	0.03	4.68	0.34	0.019	184.1	0.007	184.1	18.4	0.007	18.4	2041.8	0.00	0.32
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	2028	Haul	-	-	0.1	0.03	4.68	0.34	0.019	184.1	0.007	184.1	18.4	0.007	18.4	2041.8	0.00	0.32
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	2029	Haul	98	98	0.1	0.03	4.65	0.34	0.019	184.1	0.007	184.1	18.4	0.006	18.4	2004.7	0.00	0.32
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.019	184.1	0.007	184.1	18.4	0.006	18.4	2004.7	0.00	0.32
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	2029	Haul	4	4	0.1	0.03	4.65	0.34	0.019	184.1	0.007	184.1	18.4	0.006	18.4	2004.7	0.00	0.32
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	2030	Haul	152	152	0.1	0.03	4.62	0.33	0.019	184.1	0.007	184.1	18.4	0.006	18.4	1970.4	0.00	0.31
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	2032	Haul	4	4	0.1	0.03	4.58	0.32	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1908.0	0.00	0.30
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	2/13/2030	4/13/2032	7	791	20	2030	Haul	4	4	0.1	0.03	4.62	0.33	0.019	184.1	0.007	184.1	18.4	0.006	18.4	1970.4	0.00	0.31
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenun	4/14/2032	9/30/2033	7	535	20	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1908.0	0.00	0.30
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installatior	10/1/2033	5/15/2034	7	227	20	2033	Haul	4	4	0.1	0.03	4.56	0.32	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1880.0	0.00	0.30
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	2027	Haul	2	2	0.1	0.03	4.72	0.35	0.020	184.1	0.007	184.1	18.4	0.007	18.4	2081.8	0.00	0.33
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	2027	Haul	-	-	0.1	0.03	4.72	0.35	0.020	184.1	0.007	184.1	18.4	0.007	18.4	2081.8	0.00	0.33
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	2028	Haul	40	40	0.1	0.03	4.68	0.34	0.019	184.1	0.007	184.1	18.4	0.007	18.4	2041.8	0.00	0.32
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	2028	Haul	-	-	0.1	0.03	4.68	0.34	0.019	184.1	0.007	184.1	18.4	0.007	18.4	2041.8	0.00	0.32
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Haul	4	4	0.1	0.03	4.68	0.34	0.019	184.1	0.007	184.1	18.4	0.007	18.4	2041.8	0.00	0.32
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	2029	Haul	174	174	0.1	0.03	4.65	0.34	0.019	184.1	0.007	184.1	18.4	0.006	18.4	2004.7	0.00	0.32
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	2032	Haul	4	4	0.1	0.03	4.58	0.32	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1908.0	0.00	0.30
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Fill	3/1/2029	12/31/2032	7	1402	20	2029	Haul	4	4	0.1	0.03	4.65	0.34	0.019	184.1	0.007	184.1	18.4	0.006	18.4	2004.7	0.00	0.32
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Slabs, Walkways, Plenum	9/3/2032	8/31/2034	7	728	20	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1908.0	0.00	0.30
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	2034	Haul	4	4	0.1	0.03	4.53	0.31	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1854.7	0.00	0.29
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	2029	Haul	4	4	0.1	0.03	4.65	0.34	0.019	184.1	0.007	184.1	18.4	0.006	18.4	2004.7	0.00	0.32
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	2030	Haul	-	-	0.1	0.03	4.62	0.33	0.019	184.1	0.007	184.1	18.4	0.006	18.4	1970.4	0.00	0.31
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	2030	Haul	-	-	0.1	0.03	4.62	0.33	0.019	184.1	0.007	184.1	18.4	0.006	18.4	1970.4	0.00	0.31
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1908.0	0.00	0.30
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	11/20/2030	1/15/2031	6	49	20	2030	Haul	4	4	0.1	0.03	4.62	0.33	0.019	184.1	0.007	184.1	18.4	0.006	18.4	1970.4	0.00	0.31
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	2031	Haul	4	4	0.1	0.03	4.60	0.33	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1938.0	0.00	0.31
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	1/5/2034	2/3/2034	6	26	20	2034	Haul	4	4	0.1	0.03	4.53	0.31	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1854.7	0.00	0.29
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	2034	Haul	4	4	0.1	0.03	4.53	0.31	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1854.7	0.00	0.29
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	2034	Haul	4	4	0.1	0.03	4.53	0.31	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1854.7	0.00	0.29
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	8/18/2032	8/15/2033	6	311	20	2032	Haul	8	8	0.1	0.03	4.58	0.32	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1908.0	0.00	0.30
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Haul	6	6	0.1	0.03	4.62	0.33	0.019	184.1	0.007	184.1	18.4	0.006	18.4	1970.4	0.00	0.31
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	2030	Haul	4	4	0.1	0.03	4.62	0.33	0.019	184.1	0.007	184.1	18.4	0.006	18.4	1970.4	0.00	0.31
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Haul	2	2	0.1	0.03	4.72	0.35	0.020	184.1	0.007	184.1	18.4	0.007	18.4	2081.8	0.00	0.33
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Haul	-	-	0.1	0.03	4.68	0.34	0.019	184.1	0.007	184.1	18.4	0.007	18.4	2041.8	0.00	0.32
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	2029	Haul	50	50	0.1	0.03	4.65	0.34	0.019	184.1	0.007	184.1	18.4	0.006	18.4	2004.7	0.00	0.32
Metro E Line Stn_U-Alt4-TBM Pass Through-Maintenance	6/1/2030	7/31/2030	6	52	20	2030	Haul	-	-	0.1	0.03	4.62	0.33	0.019	184.1	0.007	184.1	18.4	0.006	18.4	1970.4	0.00	0.31
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	2030	Haul	8	8	0.1	0.03	4.62	0.33	0.019	184.1	0.007	184.1	18.4	0.006	18.4	1970.4	0.00	0.31
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	2031	Haul	4	4	0.1	0.03	4.60	0.33	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1938.0	0.00	0.31
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	2034	Haul	4	4	0.1	0.03	4.53	0.31	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1854.7	0.00	0.29
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	2028	Haul	2	2	0.1	0.03	4.68	0.34	0.019	184.1	0.007	184.1	18.4	0.007	18.4	2041.8	0.00	0.32
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.019	184.1	0.007	184.1	18.4	0.006	18.4	2004.7	0.00	0.32
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	2029	Haul	56	56	0.1	0.03	4.65	0.34	0.019	184.1	0.007	184.1	18.4	0.006	18.4	2004.7	0.00	0.32
Santa Monica Stn_U-Alt4-TBM Pass Through-Maintenance	1/1/2031	2/28/2031	6	51	20	2031	Haul	-	-	0.1	0.03	4.60	0.33	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1938.0	0.00	0.31
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	2030	Haul	10	10	0.1	0.03	4.62	0.33	0.019	184.1	0.007	184.1	18.4	0.006	18.4	1970.4	0.00	0.31
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	2032	Haul	4	4	0.1	0.03	4.58	0.32	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1908.0	0.00	0.30
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	2029	Haul	4	4	0.1	0.03	4.65	0.34	0.019	184.1	0.007	184.1	18.4	0.006	18.4	2004.7	0.00	0.32
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.019	184.1	0.007	184.1	18.4	0.006	18.4	2004.7	0.00	0.32
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	2030	Haul	90	90	0.1	0.03	4.62	0.33	0.019	184.1	0.007	184.1	18.4	0.006	18.4	1970.4	0.00	0.31
D Line Wilshire-Westwood Stn_U-Alt4-TBM Pass Through-Maintenance	8/1/2031	9/30/2031	6	52	20	2031	Haul	-	-	0.1	0.03	4.60	0.33	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1938.0	0.00	0.31
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	2031	Haul	10	10	0.1	0.03	4.60	0.33	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1938.0	0.00	0.31
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	2032	Haul	4	4	0.1	0.03	4.58	0.32	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1908.0	0.00	0.30
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	2028	Haul	2	2	0.1	0.03	4.68	0.34	0.019	184.1	0.007	184.1	18.4	0.007	18.4	2041.8	0.00	0.32
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.019	184.1	0.007	184.1	18.4	0.006	18.4	2004.7	0.00	0.32
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	2029	Haul	58	58	0.1	0.03	4.65	0.34	0.019	184.1	0.007	184.1	18.4	0.006	18.4	2004.7	0.00	0.32
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	2030	Haul	6	6	0.1	0.03	4.62	0.33	0.019	184.1	0.007	184.1	18.4	0.006	18.4	1970.4	0.00	0.31
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	2032	Haul	8	8	0.1	0.03	4.58	0.32	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1908.0	0.00	0.30
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	2033	Haul	4	4	0.1	0.03	4.56	0.32	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1880.0	0.00	0.30
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	2031	Haul	2	2	0.1	0.03	4.60	0.33	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1938.0	0.00	0.31
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	2032	Haul	2	2	0.1	0.03	4.58	0.32	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1908.0	0.00	0.30
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1880.0	0.00	0.30
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	2033	Haul	4	4	0.1	0.03	4.56	0.32	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1880.0	0.00	0.30
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	2035	Haul	2	2	0.1	0.03	4.51	0.31	0.017	184.1	0.007	184.1	18.4	0.006	18.4	1831.9	0.00	0.29

Sepulveda Transit Corridor Project - ALTERNATIVE 4

SOIL/MATERIAL HAUL TRUCKS (ONSITE)

											Non-Running Emission Factor (g/trip)[1,3]													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	2028	Haul	4	4	0.1	0.36	6.75	5.37	0.007	-	0.002	0.002	-	0.001	0.001	781.5	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	2028	Haul	-	-	0.1	0.36	6.75	5.37	0.007	-	0.002	0.002	-	0.001	0.001	781.5	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	2029	Haul	98	98	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	2029	Haul	4	4	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	2030	Haul	152	152	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	2032	Haul	4	4	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	2/13/2030	4/13/2032	7	791	20	2030	Haul	4	4	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenun	4/14/2032	9/30/2033	7	535	20	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installatior	10/1/2033	5/15/2034	7	227	20	2033	Haul	4	4	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	2027	Haul	2	2	0.1	0.36	6.88	5.37	0.008	-	0.002	0.002	-	0.001	0.001	795.6	0.02	0.13
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	2027	Haul	-	-	0.1	0.36	6.88	5.37	0.008	-	0.002	0.002	-	0.001	0.001	795.6	0.02	0.13
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	2028	Haul	40	40	0.1	0.36	6.75	5.37	0.007	-	0.002	0.002	-	0.001	0.001	781.5	0.02	0.12
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	2028	Haul	-	-	0.1	0.36	6.75	5.37	0.007	-	0.002	0.002	-	0.001	0.001	781.5	0.02	0.12
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Haul	4	4	0.1	0.36	6.75	5.37	0.007	-	0.002	0.002	-	0.001	0.001	781.5	0.02	0.12
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	2029	Haul	174	174	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	2032	Haul	4	4	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Fill	3/1/2029	12/31/2032	7	1402	20	2029	Haul	4	4	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Slabs, Walkways, Plenum	9/3/2032	8/31/2034	7	728	20	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	2034	Haul	4	4	0.1	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	2029	Haul	4	4	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	2030	Haul	-	-	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	2030	Haul	-	-	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	11/20/2030	1/15/2031	6	49	20	2030	Haul	4	4	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	2031	Haul	4	4	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	1/5/2034	2/3/2034	6	26	20	2034	Haul	4	4	0.1	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	2034	Haul	4	4	0.1	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	2034	Haul	4	4	0.1	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	8/18/2032	8/15/2033	6	311	20	2032	Haul	8	8	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Haul	6	6	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	2030	Haul	4	4	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Haul	2	2	0.1	0.36	6.88	5.37	0.008	-	0.002	0.002	-	0.001	0.001	795.6	0.02	0.13
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Haul	-	-	0.1	0.36	6.75	5.37	0.007	-	0.002	0.002	-	0.001	0.001	781.5	0.02	0.12
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	2029	Haul	50	50	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Metro E Line Stn_U-Alt4-TBM Pass Through-Maintenance	6/1/2030	7/31/2030	6	52	20	2030	Haul	-	-	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	2030	Haul	8	8	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	2031	Haul	4	4	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	2034	Haul	4	4	0.1	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	2028	Haul	2	2	0.1	0.36	6.75	5.37	0.007	-	0.002	0.002	-	0.001	0.001	781.5	0.02	0.12
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	2029	Haul	56	56	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Santa Monica Stn_U-Alt4-TBM Pass Through-Maintenance	1/1/2031	2/28/2031	6	51	20	2031	Haul	-	-	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	2030	Haul	10	10	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	2032	Haul	4	4	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	2029	Haul	4	4	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	2030	Haul	90	90	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
D Line Wilshire-Westwood Stn_U-Alt4-TBM Pass Through-Maintenance	8/1/2031	9/30/2031	6	52	20	2031	Haul	-	-	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	2031	Haul	10	10	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	2032	Haul	4	4	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	2028	Haul	2	2	0.1	0.36	6.75	5.37	0.007	-	0.002	0.002	-	0.001	0.001	781.5	0.02	0.12
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	2029	Haul	58	58	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	2030	Haul	6	6	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	2032	Haul	8	8	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	2033	Haul	4	4	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	2031	Haul	2	2	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	2032	Haul	2	2	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	2033	Haul	4	4	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	2035	Haul	2	2	0.1	0.37	6.33	5.50	0.007	-	0.002	0.002	-	0.002	0.002	731.2	0.02	0.12

Sepulveda Transit Corridor Project - ALTERNATIVE 4

SOIL/MATERIAL HAUL TRUCKS (ONSITE)

											Daily Emissions (lb/day)													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	2028	Haul	4	4	0.1	0.00	0.06	0.05	0.00	0.16	0.000	0.16	0.02	0.000	0.02	9	0.00	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	2028	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	2029	Haul	98	98	0.1	0.08	1.53	1.17	0.00	3.98	0.000	3.98	0.40	0.000	0.40	209	0.00	0.03
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	2029	Haul	4	4	0.1	0.00	0.06	0.05	0.00	0.16	0.000	0.16	0.02	0.000	0.02	9	0.00	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	2030	Haul	152	152	0.1	0.12	2.34	1.82	0.00	6.17	0.001	6.17	0.62	0.001	0.62	320	0.01	0.05
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	2032	Haul	4	4	0.1	0.00	0.06	0.05	0.00	0.16	0.000	0.16	0.02	0.000	0.02	8	0.00	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	2/13/2030	4/13/2032	7	791	20	2030	Haul	4	4	0.1	0.00	0.06	0.05	0.00	0.16	0.000	0.16	0.02	0.000	0.02	8	0.00	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenun	4/14/2032	9/30/2033	7	535	20	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installatior	10/1/2033	5/15/2034	7	227	20	2033	Haul	4	4	0.1	0.00	0.06	0.05	0.00	0.16	0.000	0.16	0.02	0.000	0.02	8	0.00	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	2027	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.000	0.08	0.01	0.000	0.01	4	0.00	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	2027	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	2028	Haul	40	40	0.1	0.03	0.64	0.48	0.00	1.62	0.000	1.62	0.16	0.000	0.16	87	0.00	0.01
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	2028	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Haul	4	4	0.1	0.00	0.06	0.05	0.00	0.16	0.000	0.16	0.02	0.000	0.02	9	0.00	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	2029	Haul	174	174	0.1	0.14	2.72	2.08	0.00	7.06	0.001	7.06	0.71	0.001	0.71	372	0.01	0.06
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	2032	Haul	4	4	0.1	0.00	0.06	0.05	0.00	0.16	0.000	0.16	0.02	0.000	0.02	8	0.00	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Fill	3/1/2029	12/31/2032	7	1402	20	2029	Haul	4	4	0.1	0.00	0.06	0.05	0.00	0.16	0.000	0.16	0.02	0.000	0.02	9	0.00	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Slabs, Walkways, Plenum	9/3/2032	8/31/2034	7	728	20	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	2034	Haul	4	4	0.1	0.00	0.06	0.05	0.00	0.16	0.000	0.16	0.02	0.000	0.02	8	0.00	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	2029	Haul	4	4	0.1	0.00	0.06	0.05	0.00	0.16	0.000	0.16	0.02	0.000	0.02	9	0.00	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	11/20/2030	1/15/2031	6	49	20	2030	Haul	4	4	0.1	0.00	0.06	0.05	0.00	0.16	0.000	0.16	0.02	0.000	0.02	8	0.00	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	2031	Haul	4	4	0.1	0.00	0.06	0.05	0.00	0.16	0.000	0.16	0.02	0.000	0.02	8	0.00	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	1/5/2034	2/3/2034	6	26	20	2034	Haul	4	4	0.1	0.00	0.06	0.05	0.00	0.16	0.000	0.16	0.02	0.000	0.02	8	0.00	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	2034	Haul	4	4	0.1	0.00	0.06	0.05	0.00	0.16	0.000	0.16	0.02	0.000	0.02	8	0.00	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	2034	Haul	4	4	0.1	0.00	0.06	0.05	0.00	0.16	0.000	0.16	0.02	0.000	0.02	8	0.00	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	8/18/2032	8/15/2033	6	311	20	2032	Haul	8	8	0.1	0.01	0.12	0.10	0.00	0.32	0.000	0.32	0.03	0.000	0.03	16	0.00	0.00
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Haul	6	6	0.1	0.00	0.09	0.07	0.00	0.24	0.000	0.24	0.02	0.000	0.02	13	0.00	0.00
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	2030	Haul	4	4	0.1	0.00	0.06	0.05	0.00	0.16	0.000	0.16	0.02	0.000	0.02	8	0.00	0.00
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.000	0.08	0.01	0.000	0.01	4	0.00	0.00
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	2029	Haul	50	50	0.1	0.04	0.78	0.60	0.00	2.03	0.000	2.03	0.20	0.000	0.20	107	0.00	0.02
Metro E Line Stn_U-Alt4-TBM Pass Through-Maintenance	6/1/2030	7/31/2030	6	52	20	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	2030	Haul	8	8	0.1	0.01	0.12	0.10	0.00	0.32	0.000	0.32	0.03	0.000	0.03	17	0.00	0.00
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	2031	Haul	4	4	0.1	0.00	0.06	0.05	0.00	0.16	0.000	0.16	0.02	0.000	0.02	8	0.00	0.00
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	2034	Haul	4	4	0.1	0.00	0.06	0.05	0.00	0.16	0.000	0.16	0.02	0.000	0.02	8	0.00	0.00
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	2028	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.000	0.08	0.01	0.000	0.01	4	0.00	0.00
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	2029	Haul	56	56	0.1	0.05	0.87	0.67	0.00	2.27	0.000	2.27	0.23	0.000	0.23	120	0.00	0.02
Santa Monica Stn_U-Alt4-TBM Pass Through-Maintenance	1/1/2031	2/28/2031	6	51	20	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	2030	Haul	10	10	0.1	0.01	0.15	0.12	0.00	0.41	0.000	0.41	0.04	0.000	0.04	21	0.00	0.00
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	2032	Haul	4	4	0.1	0.00	0.06	0.05	0.00	0.16	0.000	0.16	0.02	0.000	0.02	8	0.00	0.00
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	2029	Haul	4	4	0.1	0.00	0.06	0.05	0.00	0.16	0.000	0.16	0.02	0.000	0.02	9	0.00	0.00
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	2030	Haul	90	90	0.1	0.07	1.39	1.08	0.00	3.65	0.000	3.65	0.36	0.000	0.37	190	0.00	0.03
D Line Wilshire-Westwood Stn_U-Alt4-TBM Pass Through-Maintenance	8/1/2031	9/30/2031	6	52	20	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	2031	Haul	10	10	0.1	0.01	0.15	0.12	0.00	0.41	0.000	0.41	0.04	0.000	0.04	21	0.00	0.00
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	2032	Haul	4	4	0.1	0.00	0.06	0.05	0.00	0.16	0.000	0.16	0.02	0.000	0.02	8	0.00	0.00
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	2028	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.000	0.08	0.01	0.000	0.01	4	0.00	0.00
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	2029	Haul	58	58	0.1	0.05	0.91	0.69	0.00	2.35	0.000	2.35	0.24	0.000	0.24	124	0.00	0.02
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	2030	Haul	6	6	0.1	0.00	0.09	0.07	0.00	0.24	0.000	0.24	0.02	0.000	0.02	13	0.00	0.00
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	2032	Haul	8	8	0.1	0.01	0.12	0.10	0.00	0.32	0.000	0.32	0.03	0.000	0.03	16	0.00	0.00
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	2033	Haul	4	4	0.1	0.00	0.06	0.05	0.00	0.16	0.000	0.16	0.02	0.000	0.02	8	0.00	0.00
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	2031	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.000	0.08	0.01	0.000	0.01	4	0.00	0.00
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	2032	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.000	0.08	0.01	0.000	0.01	4	0.00	0.00
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	2033	Haul	4	4	0.1	0.00	0.06	0.05	0.00	0.16	0.000	0.16	0.02	0.000	0.02	8	0.00	0.00
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	2035	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.000	0.08	0.01	0.000	0.01	4	0.00	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 4

SOIL/MATERIAL HAUL TRUCKS (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	Total Emissions (tons) ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	Total Emissions (metric tons) CO_2	CH_4	N_2O	CO_2e
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	2028	Haul	4	4	0.1	0.00	0.00	0.00	0.00	0.01	0.000	0.01	0.00	0.000	0.00	0.3	0.00	0.00	0.3
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	2028	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	2029	Haul	98	98	0.1	0.00	0.08	0.06	0.00	0.21	0.000	0.21	0.02	0.000	0.02	9.9	0.00	0.00	10.4
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	2029	Haul	4	4	0.1	0.00	0.00	0.00	0.00	0.01	0.000	0.01	0.00	0.000	0.00	0.5	0.00	0.00	0.5
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	2030	Haul	152	152	0.1	0.05	0.93	0.72	0.00	2.44	0.000	2.44	0.24	0.000	0.24	114.9	0.00	0.02	120.4
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	2032	Haul	4	4	0.1	0.00	0.00	0.00	0.00	0.01	0.000	0.01	0.00	0.000	0.00	0.3	0.00	0.00	0.4
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	2/13/2030	4/13/2032	7	791	20	2030	Haul	4	4	0.1	0.00	0.02	0.02	0.00	0.06	0.000	0.06	0.01	0.000	0.01	3.0	0.00	0.00	3.2
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenun	4/14/2032	9/30/2033	7	535	20	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installatior	10/1/2033	5/15/2034	7	227	20	2033	Haul	4	4	0.1	0.00	0.01	0.01	0.00	0.02	0.000	0.02	0.00	0.000	0.00	0.8	0.00	0.00	0.9
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	2027	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.000	0.01	0.00	0.000	0.00	0.3	0.00	0.00	0.3
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	2027	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	2028	Haul	40	40	0.1	0.00	0.03	0.02	0.00	0.08	0.000	0.08	0.01	0.000	0.01	4.1	0.00	0.00	4.3
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	2028	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Haul	4	4	0.1	0.00	0.00	0.00	0.00	0.01	0.000	0.01	0.00	0.000	0.00	0.5	0.00	0.00	0.5
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	2029	Haul	174	174	0.1	0.10	1.90	1.45	0.00	4.93	0.001	4.93	0.49	0.001	0.49	235.4	0.00	0.04	246.5
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	2032	Haul	4	4	0.1	0.00	0.00	0.00	0.00	0.01	0.000	0.01	0.00	0.000	0.00	0.3	0.00	0.00	0.4
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Fill	3/1/2029	12/31/2032	7	1402	20	2029	Haul	4	4	0.1	0.00	0.04	0.03	0.00	0.11	0.000	0.11	0.01	0.000	0.01	5.4	0.00	0.00	5.7
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Slabs, Walkways, Plenum	9/3/2032	8/31/2034	7	728	20	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	2034	Haul	4	4	0.1	0.00	0.01	0.01	0.00	0.03	0.000	0.03	0.00	0.000	0.00	1.2	0.00	0.00	1.3
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	2029	Haul	4	4	0.1	0.00	0.01	0.00	0.00	0.02	0.000	0.02	0.00	0.000	0.00	0.8	0.00	0.00	0.8
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	11/20/2030	1/15/2031	6	49	20	2030	Haul	4	4	0.1	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	0.2	0.00	0.00	0.2
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	2031	Haul	4	4	0.1	0.00	0.03	0.02	0.00	0.08	0.000	0.08	0.01	0.000	0.01	3.5	0.00	0.00	3.7
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	1/5/2034	2/3/2034	6	26	20	2034	Haul	4	4	0.1	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	0.1	0.00	0.00	0.1
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	2034	Haul	4	4	0.1	0.00	0.01	0.01	0.00	0.02	0.000	0.02	0.00	0.000	0.00	0.9	0.00	0.00	0.9
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	2034	Haul	4	4	0.1	0.00	0.00	0.00	0.00	0.01	0.000	0.01	0.00	0.000	0.00	0.6	0.00	0.00	0.6
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	8/18/2032	8/15/2033	6	311	20	2032	Haul	8	8	0.1	0.00	0.02	0.01	0.00	0.05	0.000	0.05	0.01	0.000	0.01	2.3	0.00	0.00	2.4
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Haul	6	6	0.1	0.00	0.00	0.00	0.00	0.01	0.000	0.01	0.00	0.000	0.00	0.3	0.00	0.00	0.3
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	2030	Haul	4	4	0.1	0.00	0.05	0.04	0.00	0.12	0.000	0.12	0.01	0.000	0.01	5.7	0.00	0.00	6.0
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.000	0.01	0.00	0.000	0.00	0.4	0.00	0.00	0.4
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	2029	Haul	50	50	0.1	0.01	0.12	0.09	0.00	0.32	0.000	0.32	0.03	0.000	0.03	15.1	0.00	0.00	15.8
Metro E Line Stn_U-Alt4-TBM Pass Through-Maintenance	6/1/2030	7/31/2030	6	52	20	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	2030	Haul	8	8	0.1	0.00	0.04	0.03	0.00	0.10	0.000	0.10	0.01	0.000	0.01	4.8	0.00	0.00	5.0
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	2031	Haul	4	4	0.1	0.00	0.02	0.02	0.00	0.06	0.000	0.06	0.01	0.000	0.01	3.0	0.00	0.00	3.1
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	2034	Haul	4	4	0.1	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	0.2	0.00	0.00	0.2
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	2028	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.000	0.01	0.00	0.000	0.00	0.4	0.00	0.00	0.4
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	2029	Haul	56	56	0.1	0.01	0.14	0.10	0.00	0.36	0.000	0.36	0.04	0.000	0.04	17.0	0.00	0.00	17.8
Santa Monica Stn_U-Alt4-TBM Pass Through-Maintenance	1/1/2031	2/28/2031	6	51	20	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	2030	Haul	10	10	0.1	0.00	0.05	0.04	0.00	0.13	0.000	0.13	0.01	0.000	0.01	5.9	0.00	0.00	6.2
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	2032	Haul	4	4	0.1	0.00	0.02	0.02	0.00	0.06	0.000	0.06	0.01	0.000	0.01	2.9	0.00	0.00	3.0
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	2029	Haul	4	4	0.1	0.00	0.01	0.00	0.00	0.02	0.000	0.02	0.00	0.000	0.00	0.8	0.00	0.00	0.8
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	2030	Haul	90	90	0.1	0.01	0.22	0.17	0.00	0.57	0.000	0.57	0.06	0.000	0.06	26.9	0.00	0.00	28.2
D Line Wilshire-Westwood Stn_U-Alt4-TBM Pass Through-Maintenance	8/1/2031	9/30/2031	6	52	20	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	2031	Haul	10	10	0.1	0.00	0.04	0.03	0.00	0.11	0.000	0.11	0.01	0.000	0.01	5.1	0.00	0.00	5.4
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	2032	Haul	4	4	0.1	0.00	0.02	0.02	0.00	0.06	0.000	0.06	0.01	0.000	0.01	2.9	0.00	0.00	3.1
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	2028	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.000	0.01	0.00	0.000	0.00	0.4	0.00	0.00	0.4
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	2029	Haul	58	58	0.1	0.01	0.19	0.14	0.00	0.49	0.000	0.49	0.05	0.000	0.05	23.3	0.00	0.00	24.4
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	2030	Haul	6	6	0.1	0.00	0.02	0.02	0.00	0.05	0.000	0.05	0.01	0.000	0.01	2.4	0.00	0.00	2.5
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	2032	Haul	8	8	0.1	0.00	0.02	0.02	0.00	0.06	0.000	0.06	0.01	0.000	0.01	2.7	0.00	0.00	2.8
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	2033	Haul	4	4	0.1	0.00	0.02	0.02	0.00	0.06	0.000	0.06	0.01	0.000	0.01	2.9	0.00	0.00	3.0
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	2031	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.000	0.01	0.00	0.000	0.00	0.3	0.00	0.00	0.3
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	2032	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.000	0.01	0.00	0.000	0.00	0.5	0.00	0.00	0.5
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	2033	Haul	4	4	0.1	0.00	0.02	0.01	0.00	0.04	0.000	0.04	0.00	0.000	0.00	1.9	0.00	0.00	2.0
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	2035	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	0.1	0.00	0.00	0.1

Sepulveda Transit Corridor Project - ALTERNATIVE 4

SOIL/MATERIAL HAUL TRUCKS (ONSITE)

											Running Emission Factor (g/mile)[1,2,4]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	2031	Haul	2	2	0.1	0.03	4.60	0.33	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1938.0	0.00	0.31
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	2031	Haul	2	2	0.1	0.03	4.60	0.33	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1938.0	0.00	0.31
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1908.0	0.00	0.30
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	2032	Haul	4	4	0.1	0.03	4.58	0.32	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1908.0	0.00	0.30
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	2030	Haul	2	2	0.1	0.03	4.62	0.33	0.019	184.1	0.007	184.1	18.4	0.006	18.4	1970.4	0.00	0.31
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	2030	Haul	2	2	0.1	0.03	4.62	0.33	0.019	184.1	0.007	184.1	18.4	0.006	18.4	1970.4	0.00	0.31
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	2031	Haul	-	-	0.1	0.03	4.60	0.33	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1938.0	0.00	0.31
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	2032	Haul	4	4	0.1	0.03	4.58	0.32	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1908.0	0.00	0.30
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	2033	Haul	2	2	0.1	0.03	4.56	0.32	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1880.0	0.00	0.30
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	2029	Haul	2	2	0.1	0.03	4.65	0.34	0.019	184.1	0.007	184.1	18.4	0.006	18.4	2004.7	0.00	0.32
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	2029	Haul	2	2	0.1	0.03	4.65	0.34	0.019	184.1	0.007	184.1	18.4	0.006	18.4	2004.7	0.00	0.32
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	2030	Haul	-	-	0.1	0.03	4.62	0.33	0.019	184.1	0.007	184.1	18.4	0.006	18.4	1970.4	0.00	0.31
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	2031	Haul	4	4	0.1	0.03	4.60	0.33	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1938.0	0.00	0.31
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	2032	Haul	8	8	0.1	0.03	4.58	0.32	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1908.0	0.00	0.30
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Haul	-	-	0.1	0.03	4.53	0.31	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1854.7	0.00	0.29
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Haul	-	-	0.1	0.03	4.53	0.31	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1854.7	0.00	0.29
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Haul	2	2	0.1	0.03	4.53	0.31	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1854.7	0.00	0.29
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Haul	-	-	0.1	0.03	4.53	0.31	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1854.7	0.00	0.29
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Haul	14	14	0.1	0.03	4.58	0.32	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1908.0	0.00	0.30
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1908.0	0.00	0.30
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1908.0	0.00	0.30
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Haul	4	4	0.1	0.03	4.58	0.32	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1908.0	0.00	0.30
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Haul	14	14	0.1	0.03	4.53	0.31	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1854.7	0.00	0.29
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Haul	-	-	0.1	0.03	4.53	0.31	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1854.7	0.00	0.29
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1908.0	0.00	0.30
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	2028	Haul	52	52	0.1	0.03	4.68	0.34	0.019	184.1	0.007	184.1	18.4	0.007	18.4	2041.8	0.00	0.32
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Haul	8	8	0.1	0.03	4.68	0.34	0.019	184.1	0.007	184.1	18.4	0.007	18.4	2041.8	0.00	0.32
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Haul	8	8	0.1	0.03	4.68	0.34	0.019	184.1	0.007	184.1	18.4	0.007	18.4	2041.8	0.00	0.32

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** 100% HHDT; **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 4

SOIL/MATERIAL HAUL TRUCKS (ONSITE)

											Non-Running Emission Factor (g/trip)[1,3]													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	2031	Haul	2	2	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	2031	Haul	2	2	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	2032	Haul	4	4	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	2030	Haul	2	2	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	2030	Haul	2	2	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	2031	Haul	-	-	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	2032	Haul	4	4	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	2033	Haul	2	2	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	2029	Haul	2	2	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	2029	Haul	2	2	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	2030	Haul	-	-	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	2031	Haul	4	4	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	2032	Haul	8	8	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Haul	-	-	0.1	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Haul	-	-	0.1	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Haul	2	2	0.1	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Haul	-	-	0.1	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Haul	14	14	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Haul	4	4	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Haul	14	14	0.1	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Haul	-	-	0.1	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	2028	Haul	52	52	0.1	0.36	6.75	5.37	0.007	-	0.002	0.002	-	0.001	0.001	781.5	0.02	0.12
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Haul	8	8	0.1	0.36	6.75	5.37	0.007	-	0.002	0.002	-	0.001	0.001	781.5	0.02	0.12
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Haul	8	8	0.1	0.36	6.75	5.37	0.007	-	0.002	0.002	-	0.001	0.001	781.5	0.02	0.12

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** 100% HHDT; **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 4

SOIL/MATERIAL HAUL TRUCKS (ONSITE)

											Daily Emissions (lb/day)												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	2031	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.000	0.08	0.01	0.000	0.01	4	0.00	0.00
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	2031	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.000	0.08	0.01	0.000	0.01	4	0.00	0.00
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	2032	Haul	4	4	0.1	0.00	0.06	0.05	0.00	0.16	0.000	0.16	0.02	0.000	0.02	8	0.00	0.00
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	2030	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.000	0.08	0.01	0.000	0.01	4	0.00	0.00
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	2030	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.000	0.08	0.01	0.000	0.01	4	0.00	0.00
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	2032	Haul	4	4	0.1	0.00	0.06	0.05	0.00	0.16	0.000	0.16	0.02	0.000	0.02	8	0.00	0.00
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	2033	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.000	0.08	0.01	0.000	0.01	4	0.00	0.00
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	2029	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.000	0.08	0.01	0.000	0.01	4	0.00	0.00
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	2029	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.000	0.08	0.01	0.000	0.01	4	0.00	0.00
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	2031	Haul	4	4	0.1	0.00	0.06	0.05	0.00	0.16	0.000	0.16	0.02	0.000	0.02	8	0.00	0.00
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	2032	Haul	8	8	0.1	0.01	0.12	0.10	0.00	0.32	0.000	0.32	0.03	0.000	0.03	16	0.00	0.00
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.000	0.08	0.01	0.000	0.01	4	0.00	0.00
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Haul	14	14	0.1	0.01	0.21	0.17	0.00	0.57	0.000	0.57	0.06	0.000	0.06	29	0.00	0.00
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Haul	4	4	0.1	0.00	0.06	0.05	0.00	0.16	0.000	0.16	0.02	0.000	0.02	8	0.00	0.00
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Haul	14	14	0.1	0.01	0.21	0.17	0.00	0.57	0.000	0.57	0.06	0.000	0.06	28	0.00	0.00
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	2028	Haul	52	52	0.1	0.04	0.83	0.62	0.00	2.11	0.000	2.11	0.21	0.000	0.21	113	0.00	0.02
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Haul	8	8	0.1	0.01	0.13	0.10	0.00	0.32	0.000	0.32	0.03	0.000	0.03	17	0.00	0.00
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Haul	8	8	0.1	0.01	0.13	0.10	0.00	0.32	0.000	0.32	0.03	0.000	0.03	17	0.00	0.00

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** 100% HHDT; **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 4

SOIL/MATERIAL HAUL TRUCKS (ONSITE)

											Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Hours per Workday**	**EF Year**	**Trip Type**	**Round Trips per Day**	**Daily Onsite Trips**	**One-Way Trip Length (mi)**	**ROG**	**NO_X**	**CO**	**SO_X**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**	**CO_2**	**CH_4**	**N_2O**	**CO_2e**
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	2031	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.000	0.01	0.00	0.000	0.00	0.3	0.00	0.00	0.3
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	2031	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.000	0.01	0.00	0.000	0.00	0.4	0.00	0.00	0.4
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	2032	Haul	4	4	0.1	0.00	0.02	0.01	0.00	0.05	0.000	0.05	0.00	0.000	0.00	2.1	0.00	0.00	2.2
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	2030	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.000	0.01	0.00	0.000	0.00	0.3	0.00	0.00	0.3
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	2030	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.000	0.01	0.00	0.000	0.00	0.3	0.00	0.00	0.3
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	2032	Haul	4	4	0.1	0.00	0.02	0.01	0.00	0.04	0.000	0.04	0.00	0.000	0.00	2.1	0.00	0.00	2.2
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	2033	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	0.1	0.00	0.00	0.1
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	2029	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.000	0.01	0.00	0.000	0.00	0.3	0.00	0.00	0.3
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	2029	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.000	0.01	0.00	0.000	0.00	0.3	0.00	0.00	0.3
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	2031	Haul	4	4	0.1	0.00	0.02	0.01	0.00	0.05	0.000	0.05	0.00	0.000	0.00	2.2	0.00	0.00	2.3
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	2032	Haul	8	8	0.1	0.00	0.00	0.00	0.00	0.01	0.000	0.01	0.00	0.000	0.00	0.4	0.00	0.00	0.4
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	0.0	0.00	0.00	0.0
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Haul	14	14	0.1	0.00	0.01	0.01	0.00	0.02	0.000	0.02	0.00	0.000	0.00	1.0	0.00	0.00	1.1
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Haul	4	4	0.1	0.00	0.02	0.02	0.00	0.06	0.000	0.06	0.01	0.000	0.01	2.9	0.00	0.00	3.1
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Haul	14	14	0.1	0.00	0.01	0.00	0.00	0.01	0.000	0.01	0.00	0.000	0.00	0.7	0.00	0.00	0.7
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	2028	Haul	52	52	0.1	0.03	0.59	0.44	0.00	1.52	0.000	1.52	0.15	0.000	0.15	73.6	0.00	0.01	77.1
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Haul	8	8	0.1	0.01	0.19	0.14	0.00	0.48	0.000	0.48	0.05	0.000	0.05	23.4	0.00	0.00	24.6
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Haul	8	8	0.1	0.01	0.16	0.12	0.00	0.41	0.000	0.41	0.04	0.000	0.04	19.7	0.00	0.00	20.7

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** 100% HHDT; **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 4

SOIL/MATERIAL HAUL TRUCKS (OFFSITE)

											Running Emission Factor (g/mile)[1,2]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	2028	Haul	4	8	32.5	0.01	1.37	0.06	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1471.1	0.00	0.23
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	2028	Haul	-	-	32.5	0.01	1.37	0.06	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1471.1	0.00	0.23
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	2029	Haul	98	196	32.5	0.01	1.35	0.05	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1449.0	0.00	0.23
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	2029	Haul	-	-	32.5	0.01	1.35	0.05	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1449.0	0.00	0.23
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	2029	Haul	4	8	32.5	0.01	1.35	0.05	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1449.0	0.00	0.23
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	2030	Haul	152	304	32.5	0.01	1.33	0.05	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1428.2	0.00	0.23
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	2032	Haul	4	8	32.5	0.01	1.30	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1389.5	0.00	0.22
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	2/13/2030	4/13/2032	7	791	20	2030	Haul	4	8	32.5	0.01	1.33	0.05	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1428.2	0.00	0.23
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenun	4/14/2032	9/30/2033	7	535	20	2032	Haul	-	-	32.5	0.01	1.30	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1389.5	0.00	0.22
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installatior	10/1/2033	5/15/2034	7	227	20	2033	Haul	4	8	32.5	0.01	1.28	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1372.5	0.00	0.22
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	2027	Haul	2	4	32.5	0.01	1.39	0.06	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1494.1	0.00	0.24
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	2027	Haul	-	-	32.5	0.01	1.39	0.06	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1494.1	0.00	0.24
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	2028	Haul	40	80	32.5	0.01	1.37	0.06	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1471.1	0.00	0.23
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	2028	Haul	-	-	32.5	0.01	1.37	0.06	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1471.1	0.00	0.23
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Haul	4	8	32.5	0.01	1.37	0.06	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1471.1	0.00	0.23
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	2029	Haul	174	348	32.5	0.01	1.35	0.05	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1449.0	0.00	0.23
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	2032	Haul	4	8	32.5	0.01	1.30	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1389.5	0.00	0.22
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Fill	3/1/2029	12/31/2032	7	1402	20	2029	Haul	4	8	32.5	0.01	1.35	0.05	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1449.0	0.00	0.23
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Slabs, Walkways, Plenum	9/3/2032	8/31/2034	7	728	20	2032	Haul	-	-	32.5	0.01	1.30	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1389.5	0.00	0.22
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	2034	Haul	4	8	32.5	0.01	1.27	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1356.7	0.00	0.21
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	2029	Haul	4	8	34.3	0.01	1.35	0.05	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1449.0	0.00	0.23
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	2030	Haul	-	-	34.3	0.01	1.33	0.05	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1428.2	0.00	0.23
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	2030	Haul	-	-	34.3	0.01	1.33	0.05	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1428.2	0.00	0.23
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	2032	Haul	-	-	34.3	0.01	1.30	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1389.5	0.00	0.22
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	11/20/2030	1/15/2031	6	49	20	2030	Haul	4	8	34.3	0.01	1.33	0.05	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1428.2	0.00	0.23
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	2031	Haul	4	8	34.3	0.01	1.31	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1408.2	0.00	0.22
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	1/5/2034	2/3/2034	6	26	20	2034	Haul	4	8	34.3	0.01	1.27	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1356.7	0.00	0.21
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	2034	Haul	4	8	34.3	0.01	1.27	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1356.7	0.00	0.21
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	2034	Haul	4	8	34.3	0.01	1.27	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1356.7	0.00	0.21
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	8/18/2032	8/15/2033	6	311	20	2032	Haul	8	16	34.3	0.01	1.30	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1389.5	0.00	0.22
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Haul	6	12	32.5	0.01	1.33	0.05	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1428.2	0.00	0.23
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	2030	Haul	4	8	32.5	0.01	1.33	0.05	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1428.2	0.00	0.23
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Haul	2	4	32.5	0.01	1.39	0.06	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1494.1	0.00	0.24
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Haul	-	-	32.5	0.01	1.37	0.06	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1471.1	0.00	0.23
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	2029	Haul	50	100	32.5	0.01	1.35	0.05	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1449.0	0.00	0.23
Metro E Line Stn_U-Alt4-TBM Pass Through-Maintenance	6/1/2030	7/31/2030	6	52	20	2030	Haul	-	-	32.5	0.01	1.33	0.05	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1428.2	0.00	0.23
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	2030	Haul	8	16	32.5	0.01	1.33	0.05	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1428.2	0.00	0.23
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	2031	Haul	4	8	32.5	0.01	1.31	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1408.2	0.00	0.22
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	2034	Haul	4	8	32.5	0.01	1.27	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1356.7	0.00	0.21
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	2028	Haul	2	4	32.5	0.01	1.37	0.06	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1471.1	0.00	0.23
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	2029	Haul	-	-	32.5	0.01	1.35	0.05	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1449.0	0.00	0.23
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	2029	Haul	56	112	32.5	0.01	1.35	0.05	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1449.0	0.00	0.23
Santa Monica Stn_U-Alt4-TBM Pass Through-Maintenance	1/1/2031	2/28/2031	6	51	20	2031	Haul	-	-	32.5	0.01	1.31	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1408.2	0.00	0.22
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	2030	Haul	10	20	32.5	0.01	1.33	0.05	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1428.2	0.00	0.23
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	2032	Haul	4	8	32.5	0.01	1.30	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1389.5	0.00	0.22
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	2029	Haul	4	8	32.5	0.01	1.35	0.05	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1449.0	0.00	0.23
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	2029	Haul	-	-	32.5	0.01	1.35	0.05	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1449.0	0.00	0.23
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	2030	Haul	90	180	32.5	0.01	1.33	0.05	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1428.2	0.00	0.23
D Line Wilshire-Westwood Stn_U-Alt4-TBM Pass Through-Maintenance	8/1/2031	9/30/2031	6	52	20	2031	Haul	-	-	32.5	0.01	1.31	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1408.2	0.00	0.22
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	2031	Haul	10	20	32.5	0.01	1.31	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1408.2	0.00	0.22
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	2032	Haul	4	8	32.5	0.01	1.30	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1389.5	0.00	0.22
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	2028	Haul	2	4	32.5	0.01	1.37	0.06	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1471.1	0.00	0.23
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	2029	Haul	-	-	32.5	0.01	1.35	0.05	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1449.0	0.00	0.23
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	2029	Haul	58	116	32.5	0.01	1.35	0.05	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1449.0	0.00	0.23
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	2030	Haul	6	12	32.5	0.01	1.33	0.05	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1428.2	0.00	0.23
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	2032	Haul	8	16	32.5	0.01	1.30	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1389.5	0.00	0.22
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	2033	Haul	4	8	32.5	0.01	1.28	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1372.5	0.00	0.22
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	2031	Haul	2	4	34.3	0.01	1.31	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1408.2	0.00	0.22
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	2032	Haul	2	4	34.3	0.01	1.30	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1389.5	0.00	0.22
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	2033	Haul	-	-	34.3	0.01	1.28	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1372.5	0.00	0.22
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	2033	Haul	4	8	34.3	0.01	1.28	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1372.5	0.00	0.22
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	2035	Haul	2	4	34.3	0.01	1.25	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1342.3	0.00	0.21

Sepulveda Transit Corridor Project - ALTERNATIVE 4

SOIL/MATERIAL HAUL TRUCKS (OFFSITE)

											Non-Running Emission Factor (g/trip)[1,3]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	2028	Haul	4	8	32.5	0.36	6.75	5.37	0.007	-	0.002	0.002	-	0.001	0.001	781.5	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	2028	Haul	-	-	32.5	0.36	6.75	5.37	0.007	-	0.002	0.002	-	0.001	0.001	781.5	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	2029	Haul	98	196	32.5	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	2029	Haul	-	-	32.5	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	2029	Haul	4	8	32.5	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	2030	Haul	152	304	32.5	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	2032	Haul	4	8	32.5	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	2/13/2030	4/13/2032	7	791	20	2030	Haul	4	8	32.5	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenun	4/14/2032	9/30/2033	7	535	20	2032	Haul	-	-	32.5	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installatior	10/1/2033	5/15/2034	7	227	20	2033	Haul	4	8	32.5	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	2027	Haul	2	4	32.5	0.36	6.88	5.37	0.008	-	0.002	0.002	-	0.001	0.001	795.6	0.02	0.13
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	2027	Haul	-	-	32.5	0.36	6.88	5.37	0.008	-	0.002	0.002	-	0.001	0.001	795.6	0.02	0.13
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	2028	Haul	40	80	32.5	0.36	6.75	5.37	0.007	-	0.002	0.002	-	0.001	0.001	781.5	0.02	0.12
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	2028	Haul	-	-	32.5	0.36	6.75	5.37	0.007	-	0.002	0.002	-	0.001	0.001	781.5	0.02	0.12
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Haul	4	8	32.5	0.36	6.75	5.37	0.007	-	0.002	0.002	-	0.001	0.001	781.5	0.02	0.12
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	2029	Haul	174	348	32.5	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	2032	Haul	4	8	32.5	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Fill	3/1/2029	12/31/2032	7	1402	20	2029	Haul	4	8	32.5	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Slabs, Walkways, Plenum	9/3/2032	8/31/2034	7	728	20	2032	Haul	-	-	32.5	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	2034	Haul	4	8	32.5	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	2029	Haul	4	8	34.3	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	2030	Haul	-	-	34.3	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	2030	Haul	-	-	34.3	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	2032	Haul	-	-	34.3	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	11/20/2030	1/15/2031	6	49	20	2030	Haul	4	8	34.3	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	2031	Haul	4	8	34.3	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	1/5/2034	2/3/2034	6	26	20	2034	Haul	4	8	34.3	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	2034	Haul	4	8	34.3	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	2034	Haul	4	8	34.3	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	8/18/2032	8/15/2033	6	311	20	2032	Haul	8	16	34.3	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Haul	6	12	32.5	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	2030	Haul	4	8	32.5	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Haul	2	4	32.5	0.36	6.88	5.37	0.008	-	0.002	0.002	-	0.001	0.001	795.6	0.02	0.13
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Haul	-	-	32.5	0.36	6.75	5.37	0.007	-	0.002	0.002	-	0.001	0.001	781.5	0.02	0.12
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	2029	Haul	50	100	32.5	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Metro E Line Stn_U-Alt4-TBM Pass Through-Maintenance	6/1/2030	7/31/2030	6	52	20	2030	Haul	-	-	32.5	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	2030	Haul	8	16	32.5	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	2031	Haul	4	8	32.5	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	2034	Haul	4	8	32.5	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	2028	Haul	2	4	32.5	0.36	6.75	5.37	0.007	-	0.002	0.002	-	0.001	0.001	781.5	0.02	0.12
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	2029	Haul	-	-	32.5	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	2029	Haul	56	112	32.5	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Santa Monica Stn_U-Alt4-TBM Pass Through-Maintenance	1/1/2031	2/28/2031	6	51	20	2031	Haul	-	-	32.5	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	2030	Haul	10	20	32.5	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	2032	Haul	4	8	32.5	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	2029	Haul	4	8	32.5	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	2029	Haul	-	-	32.5	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	2030	Haul	90	180	32.5	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
D Line Wilshire-Westwood Stn_U-Alt4-TBM Pass Through-Maintenance	8/1/2031	9/30/2031	6	52	20	2031	Haul	-	-	32.5	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	2031	Haul	10	20	32.5	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	2032	Haul	4	8	32.5	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	2028	Haul	2	4	32.5	0.36	6.75	5.37	0.007	-	0.002	0.002	-	0.001	0.001	781.5	0.02	0.12
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	2029	Haul	-	-	32.5	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	2029	Haul	58	116	32.5	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	2030	Haul	6	12	32.5	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	2032	Haul	8	16	32.5	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	2033	Haul	4	8	32.5	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	2031	Haul	2	4	34.3	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	2032	Haul	2	4	34.3	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	2033	Haul	-	-	34.3	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	2033	Haul	4	8	34.3	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	2035	Haul	2	4	34.3	0.37	6.33	5.50	0.007	-	0.002	0.002	-	0.002	0.002	731.2	0.02	0.12

Sepulveda Transit Corridor Project - ALTERNATIVE 4

SOIL/MATERIAL HAUL TRUCKS (OFFSITE)

											Daily Emissions (lb/day)												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	2028	Haul	4	8	32.5	0.01	0.90	0.13	0.01	0.24	0.015	0.25	0.06	0.014	0.08	857	0.00	0.14
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	2028	Haul	-	-	32.5	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	2029	Haul	98	196	32.5	0.31	21.75	3.07	0.20	5.81	0.367	6.18	1.56	0.351	1.91	20682	0.01	3.26
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	2029	Haul	-	-	32.5	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	2029	Haul	4	8	32.5	0.01	0.89	0.13	0.01	0.24	0.015	0.25	0.06	0.014	0.08	844	0.00	0.13
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	2030	Haul	152	304	32.5	0.49	33.28	4.74	0.30	9.03	0.568	9.60	2.43	0.544	2.97	31618	0.02	4.98
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	2032	Haul	4	8	32.5	0.01	0.86	0.12	0.01	0.24	0.015	0.25	0.06	0.014	0.08	810	0.00	0.13
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	2/13/2030	4/13/2032	7	791	20	2030	Haul	4	8	32.5	0.01	0.88	0.12	0.01	0.24	0.015	0.25	0.06	0.014	0.08	832	0.00	0.13
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenun	4/14/2032	9/30/2033	7	535	20	2032	Haul	-	-	32.5	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installatior	10/1/2033	5/15/2034	7	227	20	2033	Haul	4	8	32.5	0.01	0.85	0.12	0.01	0.24	0.015	0.25	0.06	0.014	0.08	800	0.00	0.13
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	2027	Haul	2	4	32.5	0.01	0.46	0.06	0.00	0.12	0.007	0.13	0.03	0.007	0.04	435	0.00	0.07
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	2027	Haul	-	-	32.5	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	2028	Haul	40	80	32.5	0.13	9.03	1.26	0.08	2.37	0.150	2.52	0.64	0.143	0.78	8570	0.01	1.35
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	2028	Haul	-	-	32.5	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Haul	4	8	32.5	0.01	0.90	0.13	0.01	0.24	0.015	0.25	0.06	0.014	0.08	857	0.00	0.14
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	2029	Haul	174	348	32.5	0.56	38.63	5.45	0.35	10.32	0.651	10.97	2.77	0.623	3.40	36721	0.03	5.79
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	2032	Haul	4	8	32.5	0.01	0.86	0.12	0.01	0.24	0.015	0.25	0.06	0.014	0.08	810	0.00	0.13
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Fill	3/1/2029	12/31/2032	7	1402	20	2029	Haul	4	8	32.5	0.01	0.89	0.13	0.01	0.24	0.015	0.25	0.06	0.014	0.08	844	0.00	0.13
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Slabs, Walkways, Plenum	9/3/2032	8/31/2034	7	728	20	2032	Haul	-	-	32.5	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	2034	Haul	4	8	32.5	0.01	0.84	0.12	0.01	0.24	0.015	0.25	0.06	0.014	0.08	791	0.00	0.12
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	2029	Haul	4	8	34.3	0.01	0.93	0.13	0.01	0.25	0.016	0.27	0.07	0.015	0.08	889	0.00	0.14
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	2030	Haul	-	-	34.3	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	2030	Haul	-	-	34.3	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	2032	Haul	-	-	34.3	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	11/20/2030	1/15/2031	6	49	20	2030	Haul	4	8	34.3	0.01	0.92	0.13	0.01	0.25	0.016	0.27	0.07	0.015	0.08	876	0.00	0.14
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	2031	Haul	4	8	34.3	0.01	0.91	0.13	0.01	0.25	0.016	0.27	0.07	0.015	0.08	864	0.00	0.14
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	1/5/2034	2/3/2034	6	26	20	2034	Haul	4	8	34.3	0.01	0.88	0.12	0.01	0.25	0.016	0.27	0.07	0.015	0.08	832	0.00	0.13
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	2034	Haul	4	8	34.3	0.01	0.88	0.12	0.01	0.25	0.016	0.27	0.07	0.015	0.08	832	0.00	0.13
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	2034	Haul	4	8	34.3	0.01	0.88	0.12	0.01	0.25	0.016	0.27	0.07	0.015	0.08	832	0.00	0.13
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	8/18/2032	8/15/2033	6	311	20	2032	Haul	8	16	34.3	0.03	1.79	0.25	0.02	0.50	0.031	0.53	0.14	0.030	0.17	1705	0.00	0.27
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Haul	6	12	32.5	0.02	1.31	0.19	0.01	0.36	0.022	0.38	0.10	0.021	0.12	1248	0.00	0.20
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	2030	Haul	4	8	32.5	0.01	0.88	0.12	0.01	0.24	0.015	0.25	0.06	0.014	0.08	832	0.00	0.13
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Haul	2	4	32.5	0.01	0.46	0.06	0.00	0.12	0.007	0.13	0.03	0.007	0.04	435	0.00	0.07
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Haul	-	-	32.5	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	2029	Haul	50	100	32.5	0.16	11.10	1.57	0.10	2.97	0.187	3.15	0.80	0.179	0.98	10552	0.01	1.66
Metro E Line Stn_U-Alt4-TBM Pass Through-Maintenance	6/1/2030	7/31/2030	6	52	20	2030	Haul	-	-	32.5	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	2030	Haul	8	16	32.5	0.03	1.75	0.25	0.02	0.48	0.030	0.51	0.13	0.029	0.16	1664	0.00	0.26
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	2031	Haul	4	8	32.5	0.01	0.87	0.12	0.01	0.24	0.015	0.25	0.06	0.014	0.08	820	0.00	0.13
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	2034	Haul	4	8	32.5	0.01	0.84	0.12	0.01	0.24	0.015	0.25	0.06	0.014	0.08	791	0.00	0.12
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	2028	Haul	2	4	32.5	0.01	0.45	0.06	0.00	0.12	0.007	0.13	0.03	0.007	0.04	428	0.00	0.07
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	2029	Haul	-	-	32.5	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	2029	Haul	56	112	32.5	0.18	12.43	1.76	0.11	3.32	0.209	3.53	0.89	0.200	1.09	11818	0.01	1.86
Santa Monica Stn_U-Alt4-TBM Pass Through-Maintenance	1/1/2031	2/28/2031	6	51	20	2031	Haul	-	-	32.5	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	2030	Haul	10	20	32.5	0.03	2.19	0.31	0.02	0.59	0.037	0.63	0.16	0.036	0.20	2080	0.00	0.33
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	2032	Haul	4	8	32.5	0.01	0.86	0.12	0.01	0.24	0.015	0.25	0.06	0.014	0.08	810	0.00	0.13
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	2029	Haul	4	8	32.5	0.01	0.89	0.13	0.01	0.24	0.015	0.25	0.06	0.014	0.08	844	0.00	0.13
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	2029	Haul	-	-	32.5	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	2030	Haul	90	180	32.5	0.29	19.70	2.81	0.18	5.35	0.337	5.68	1.44	0.322	1.76	18721	0.01	2.95
D Line Wilshire-Westwood Stn_U-Alt4-TBM Pass Through-Maintenance	8/1/2031	9/30/2031	6	52	20	2031	Haul	-	-	32.5	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	2031	Haul	10	20	32.5	0.03	2.16	0.31	0.02	0.59	0.037	0.63	0.16	0.036	0.20	2051	0.00	0.32
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	2032	Haul	4	8	32.5	0.01	0.86	0.12	0.01	0.24	0.015	0.25	0.06	0.014	0.08	810	0.00	0.13
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	2028	Haul	2	4	32.5	0.01	0.45	0.06	0.00	0.12	0.007	0.13	0.03	0.007	0.04	428	0.00	0.07
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	2029	Haul	-	-	32.5	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	2029	Haul	58	116	32.5	0.19	12.88	1.82	0.12	3.44	0.217	3.66	0.92	0.208	1.13	12240	0.01	1.93
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	2030	Haul	6	12	32.5	0.02	1.31	0.19	0.01	0.36	0.022	0.38	0.10	0.021	0.12	1248	0.00	0.20
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	2032	Haul	8	16	32.5	0.03	1.71	0.25	0.02	0.48	0.030	0.51	0.13	0.029	0.16	1619	0.00	0.26
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	2033	Haul	4	8	32.5	0.01	0.85	0.12	0.01	0.24	0.015	0.25	0.06	0.014	0.08	800	0.00	0.13
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	2031	Haul	2	4	34.3	0.01	0.45	0.06	0.00	0.13	0.008	0.13	0.03	0.008	0.04	432	0.00	0.07
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	2032	Haul	2	4	34.3	0.01	0.45	0.06	0.00	0.13	0.008	0.13	0.03	0.008	0.04	426	0.00	0.07
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	2033	Haul	-	-	34.3	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	2033	Haul	4	8	34.3	0.01	0.89	0.12	0.01	0.25	0.016	0.27	0.07	0.015	0.08	842	0.00	0.13
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	2035	Haul	2	4	34.3	0.01	0.43	0.06	0.00	0.13	0.008	0.13	0.03	0.007	0.04	412	0.00	0.06

Sepulveda Transit Corridor Project - ALTERNATIVE 4

SOIL/MATERIAL HAUL TRUCKS (OFFSITE)

											Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	2028	Haul	4	8	32.5	0.00	0.04	0.00	0.00	0.01	0.001	0.01	0.00	0.001	0.00	30	0.00	0.00	32
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	2028	Haul	-	-	32.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	2029	Haul	98	196	32.5	0.02	1.13	0.16	0.01	0.30	0.019	0.32	0.08	0.018	0.10	976	0.00	0.15	1021
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	2029	Haul	-	-	32.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	2029	Haul	4	8	32.5	0.00	0.06	0.01	0.00	0.01	0.001	0.02	0.00	0.001	0.00	48	0.00	0.01	51
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	2030	Haul	152	304	32.5	0.19	13.16	1.87	0.12	3.57	0.225	3.80	0.96	0.215	1.18	11344	0.01	1.79	11877
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	2032	Haul	4	8	32.5	0.00	0.04	0.01	0.00	0.01	0.001	0.01	0.00	0.001	0.00	33	0.00	0.01	35
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	2/13/2030	4/13/2032	7	791	20	2030	Haul	4	8	32.5	0.01	0.35	0.05	0.00	0.09	0.006	0.10	0.03	0.006	0.03	299	0.00	0.05	313
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenun	4/14/2032	9/30/2033	7	535	20	2032	Haul	-	-	32.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installatior	10/1/2033	5/15/2034	7	227	20	2033	Haul	4	8	32.5	0.00	0.10	0.01	0.00	0.03	0.002	0.03	0.01	0.002	0.01	82	0.00	0.01	86
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	2027	Haul	2	4	32.5	0.00	0.03	0.00	0.00	0.01	0.000	0.01	0.00	0.000	0.00	26	0.00	0.00	27
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	2027	Haul	-	-	32.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	2028	Haul	40	80	32.5	0.01	0.47	0.07	0.00	0.12	0.008	0.13	0.03	0.007	0.04	404	0.00	0.06	423
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	2028	Haul	-	-	32.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Haul	4	8	32.5	0.00	0.06	0.01	0.00	0.01	0.001	0.02	0.00	0.001	0.00	47	0.00	0.01	50
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	2029	Haul	174	348	32.5	0.39	26.94	3.80	0.24	7.20	0.454	7.65	1.94	0.434	2.37	23236	0.02	3.66	24327
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	2032	Haul	4	8	32.5	0.00	0.04	0.01	0.00	0.01	0.001	0.01	0.00	0.001	0.00	33	0.00	0.01	35
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Fill	3/1/2029	12/31/2032	7	1402	20	2029	Haul	4	8	32.5	0.01	0.62	0.09	0.01	0.17	0.010	0.18	0.04	0.010	0.05	537	0.00	0.08	562
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Slabs, Walkways, Plenum	9/3/2032	8/31/2034	7	728	20	2032	Haul	-	-	32.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	2034	Haul	4	8	32.5	0.00	0.14	0.02	0.00	0.04	0.002	0.04	0.01	0.002	0.01	118	0.00	0.02	124
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	2029	Haul	4	8	34.3	0.00	0.10	0.01	0.00	0.03	0.002	0.03	0.01	0.002	0.01	83	0.00	0.01	87
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	2030	Haul	-	-	34.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	2030	Haul	-	-	34.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	2032	Haul	-	-	34.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	11/20/2030	1/15/2031	6	49	20	2030	Haul	4	8	34.3	0.00	0.02	0.00	0.00	0.01	0.000	0.01	0.00	0.000	0.00	19	0.00	0.00	20
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	2031	Haul	4	8	34.3	0.01	0.42	0.06	0.00	0.12	0.007	0.12	0.03	0.007	0.04	364	0.00	0.06	382
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	1/5/2034	2/3/2034	6	26	20	2034	Haul	4	8	34.3	0.00	0.01	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	10	0.00	0.00	10
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	2034	Haul	4	8	34.3	0.00	0.10	0.01	0.00	0.03	0.002	0.03	0.01	0.002	0.01	88	0.00	0.01	93
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	2034	Haul	4	8	34.3	0.00	0.07	0.01	0.00	0.02	0.001	0.02	0.01	0.001	0.01	59	0.00	0.01	61
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	8/18/2032	8/15/2033	6	311	20	2032	Haul	8	16	34.3	0.00	0.28	0.04	0.00	0.08	0.005	0.08	0.02	0.005	0.03	241	0.00	0.04	252
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Haul	6	12	32.5	0.00	0.04	0.01	0.00	0.01	0.001	0.01	0.00	0.001	0.00	32	0.00	0.00	33
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	2030	Haul	4	8	32.5	0.01	0.65	0.09	0.01	0.18	0.011	0.19	0.05	0.011	0.06	563	0.00	0.09	590
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Haul	2	4	32.5	0.00	0.05	0.01	0.00	0.01	0.001	0.01	0.00	0.001	0.00	41	0.00	0.01	43
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Haul	-	-	32.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	2029	Haul	50	100	32.5	0.02	1.73	0.24	0.02	0.46	0.029	0.49	0.12	0.028	0.15	1489	0.00	0.23	1558
Metro E Line Stn_U-Alt4-TBM Pass Through-Maintenance	6/1/2030	7/31/2030	6	52	20	2030	Haul	-	-	32.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	2030	Haul	8	16	32.5	0.01	0.55	0.08	0.00	0.15	0.009	0.16	0.04	0.009	0.05	472	0.00	0.07	494
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	2031	Haul	4	8	32.5	0.00	0.34	0.05	0.00	0.09	0.006	0.10	0.03	0.006	0.03	292	0.00	0.05	305
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	2034	Haul	4	8	32.5	0.00	0.02	0.00	0.00	0.01	0.000	0.01	0.00	0.000	0.00	18	0.00	0.00	18
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	2028	Haul	2	4	32.5	0.00	0.05	0.01	0.00	0.01	0.001	0.01	0.00	0.001	0.00	40	0.00	0.01	42
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	2029	Haul	-	-	32.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	2029	Haul	56	112	32.5	0.03	1.95	0.27	0.02	0.52	0.033	0.55	0.14	0.031	0.17	1678	0.00	0.26	1757
Santa Monica Stn_U-Alt4-TBM Pass Through-Maintenance	1/1/2031	2/28/2031	6	51	20	2031	Haul	-	-	32.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	2030	Haul	10	20	32.5	0.01	0.68	0.10	0.01	0.18	0.012	0.20	0.05	0.011	0.06	585	0.00	0.09	612
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	2032	Haul	4	8	32.5	0.00	0.33	0.05	0.00	0.09	0.006	0.10	0.02	0.006	0.03	285	0.00	0.04	298
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	2029	Haul	4	8	32.5	0.00	0.09	0.01	0.00	0.02	0.002	0.03	0.01	0.001	0.01	80	0.00	0.01	83
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	2029	Haul	-	-	32.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	2030	Haul	90	180	32.5	0.05	3.08	0.44	0.03	0.84	0.053	0.89	0.23	0.050	0.28	2658	0.00	0.42	2783
D Line Wilshire-Westwood Stn_U-Alt4-TBM Pass Through-Maintenance	8/1/2031	9/30/2031	6	52	20	2031	Haul	-	-	32.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	2031	Haul	10	20	32.5	0.01	0.59	0.08	0.01	0.16	0.010	0.17	0.04	0.010	0.05	506	0.00	0.08	530
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	2032	Haul	4	8	32.5	0.00	0.34	0.05	0.00	0.09	0.006	0.10	0.03	0.006	0.03	289	0.00	0.05	302
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	2028	Haul	2	4	32.5	0.00	0.05	0.01	0.00	0.01	0.001	0.01	0.00	0.001	0.00	40	0.00	0.01	42
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	2029	Haul	-	-	32.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	2029	Haul	58	116	32.5	0.04	2.67	0.38	0.02	0.71	0.045	0.76	0.19	0.043	0.23	2304	0.00	0.36	2412
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	2030	Haul	6	12	32.5	0.00	0.28	0.04	0.00	0.07	0.005	0.08	0.02	0.004	0.02	237	0.00	0.04	248
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	2032	Haul	8	16	32.5	0.00	0.31	0.04	0.00	0.09	0.005	0.09	0.02	0.005	0.03	264	0.00	0.04	277
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	2033	Haul	4	8	32.5	0.00	0.33	0.05	0.00	0.09	0.006	0.10	0.02	0.006	0.03	281	0.00	0.04	294
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	2031	Haul	2	4	34.3	0.00	0.04	0.00	0.00	0.01	0.001	0.01	0.00	0.001	0.00	31	0.00	0.00	32
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	2032	Haul	2	4	34.3	0.00	0.06	0.01	0.00	0.02	0.001	0.02	0.00	0.001	0.01	51	0.00	0.01	53
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	2033	Haul	-	-	34.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	2033	Haul	4	8	34.3	0.00	0.23	0.03	0.00	0.07	0.004	0.07	0.02	0.004	0.02	200	0.00	0.03	209
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	2035	Haul	2	4	34.3	0.00	0.01	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	10	0.00	0.00	11

Sepulveda Transit Corridor Project - ALTERNATIVE 4

SOIL/MATERIAL HAUL TRUCKS (OFFSITE)

											Running Emission Factor (g/mile)[1,2]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	2031	Haul	2	4	34.3	0.01	1.31	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1408.2	0.00	0.22
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	2031	Haul	2	4	34.3	0.01	1.31	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1408.2	0.00	0.22
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	2032	Haul	-	-	34.3	0.01	1.30	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1389.5	0.00	0.22
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	2032	Haul	4	8	34.3	0.01	1.30	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1389.5	0.00	0.22
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	2030	Haul	2	4	34.3	0.01	1.33	0.05	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1428.2	0.00	0.23
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	2030	Haul	2	4	34.3	0.01	1.33	0.05	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1428.2	0.00	0.23
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	2031	Haul	-	-	34.3	0.01	1.31	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1408.2	0.00	0.22
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	2032	Haul	4	8	34.3	0.01	1.30	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1389.5	0.00	0.22
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	2033	Haul	2	4	34.3	0.01	1.28	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1372.5	0.00	0.22
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	2029	Haul	2	4	34.3	0.01	1.35	0.05	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1449.0	0.00	0.23
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	2029	Haul	2	4	34.3	0.01	1.35	0.05	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1449.0	0.00	0.23
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	2030	Haul	-	-	34.3	0.01	1.33	0.05	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1428.2	0.00	0.23
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	2031	Haul	4	8	34.3	0.01	1.31	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1408.2	0.00	0.22
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	2032	Haul	8	16	34.3	0.01	1.30	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1389.5	0.00	0.22
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Haul	-	-	34.3	0.01	1.27	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1356.7	0.00	0.21
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Haul	-	-	34.3	0.01	1.27	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1356.7	0.00	0.21
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Haul	2	4	34.3	0.01	1.27	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1356.7	0.00	0.21
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Haul	-	-	34.3	0.01	1.27	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1356.7	0.00	0.21
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Haul	14	28	32.5	0.01	1.30	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1389.5	0.00	0.22
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Haul	-	-	32.5	0.01	1.30	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1389.5	0.00	0.22
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Haul	-	-	32.5	0.01	1.30	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1389.5	0.00	0.22
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Haul	4	8	32.5	0.01	1.30	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1389.5	0.00	0.22
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Haul	14	28	32.5	0.01	1.27	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1356.7	0.00	0.21
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Haul	-	-	32.5	0.01	1.27	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1356.7	0.00	0.21
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Haul	-	-	32.5	0.01	1.30	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1389.5	0.00	0.22
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	2028	Haul	52	104	32.5	0.01	1.37	0.06	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1471.1	0.00	0.23
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Haul	8	16	34.3	0.01	1.37	0.06	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1471.1	0.00	0.23
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Haul	8	16	32.5	0.01	1.37	0.06	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1471.1	0.00	0.23

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate Speeds; **Fleet Mix:100%** HHDT;
Fuel Type: Diesel

2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.

3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 4

SOIL/MATERIAL HAUL TRUCKS (OFFSITE)

											Non-Running Emission Factor (g/trip)[1,3]													
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Hours per Workday**	**EF Year**	**Trip Type**	**Round Trips per Day**	**Total One-Way Trips per Day**	**One-Way Trip Length (mi)**	**ROG**	**NO_X**	**CO**	**SO_X**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**	**CO_2**	**CH_4**	**N_2O**
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	2031	Haul	2	4	34.3	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	2031	Haul	2	4	34.3	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	2032	Haul	-	-	34.3	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	2032	Haul	4	8	34.3	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	2030	Haul	2	4	34.3	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	2030	Haul	2	4	34.3	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	2031	Haul	-	-	34.3	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	2032	Haul	4	8	34.3	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	2033	Haul	2	4	34.3	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	2029	Haul	2	4	34.3	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	2029	Haul	2	4	34.3	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	2030	Haul	-	-	34.3	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	2031	Haul	4	8	34.3	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	2032	Haul	8	16	34.3	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Haul	-	-	34.3	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Haul	-	-	34.3	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Haul	2	4	34.3	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Haul	-	-	34.3	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Haul	14	28	32.5	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Haul	-	-	32.5	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Haul	-	-	32.5	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Haul	4	8	32.5	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Haul	14	28	32.5	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Haul	-	-	32.5	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Haul	-	-	32.5	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	2028	Haul	52	104	32.5	0.36	6.75	5.37	0.007	-	0.002	0.002	-	0.001	0.001	781.5	0.02	0.12
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Haul	8	16	34.3	0.36	6.75	5.37	0.007	-	0.002	0.002	-	0.001	0.001	781.5	0.02	0.12
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Haul	8	16	32.5	0.36	6.75	5.37	0.007	-	0.002	0.002	-	0.001	0.001	781.5	0.02	0.12

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate Speeds; **Fleet Mix:100%** HHDT;
Fuel Type: Diesel

2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.

3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 4

SOIL/MATERIAL HAUL TRUCKS (OFFSITE)

											Daily Emissions (lb/day)													
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Hours per Workday**	**EF Year**	**Trip Type**	**Round Trips per Day**	**Total One-Way Trips per Day**	**One-Way Trip Length (mi)**	**ROG**	**NO_X**	**CO**	**SO_X**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**	**CO_2**	**CH_4**	**N_2O**
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	2031	Haul	2	4	34.3	0.01	0.45	0.06	0.00	0.13	0.008	0.13	0.03	0.008	0.04	432	0.00	0.07
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	2031	Haul	2	4	34.3	0.01	0.45	0.06	0.00	0.13	0.008	0.13	0.03	0.008	0.04	432	0.00	0.07
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	2032	Haul	-	-	34.3	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	2032	Haul	4	8	34.3	0.01	0.90	0.13	0.01	0.25	0.016	0.27	0.07	0.015	0.08	852	0.00	0.13
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	2030	Haul	2	4	34.3	0.01	0.46	0.06	0.00	0.13	0.008	0.13	0.03	0.008	0.04	438	0.00	0.07
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	2030	Haul	2	4	34.3	0.01	0.46	0.06	0.00	0.13	0.008	0.13	0.03	0.008	0.04	438	0.00	0.07
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	2031	Haul	-	-	34.3	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	2032	Haul	4	8	34.3	0.01	0.90	0.13	0.01	0.25	0.016	0.27	0.07	0.015	0.08	852	0.00	0.13
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	2033	Haul	2	4	34.3	0.01	0.44	0.06	0.00	0.13	0.008	0.13	0.03	0.008	0.04	421	0.00	0.07
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	2029	Haul	2	4	34.3	0.01	0.46	0.06	0.00	0.13	0.008	0.13	0.03	0.008	0.04	444	0.00	0.07
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	2029	Haul	2	4	34.3	0.01	0.46	0.06	0.00	0.13	0.008	0.13	0.03	0.008	0.04	444	0.00	0.07
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	2030	Haul	-	-	34.3	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	2031	Haul	4	8	34.3	0.01	0.91	0.13	0.01	0.25	0.016	0.27	0.07	0.015	0.08	864	0.00	0.14
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	2032	Haul	8	16	34.3	0.03	1.79	0.25	0.02	0.50	0.031	0.53	0.14	0.030	0.17	1705	0.00	0.27
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Haul	-	-	34.3	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Haul	-	-	34.3	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Haul	2	4	34.3	0.01	0.44	0.06	0.00	0.13	0.008	0.13	0.03	0.008	0.04	416	0.00	0.07
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Haul	-	-	34.3	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Haul	14	28	32.5	0.04	3.00	0.43	0.03	0.83	0.052	0.89	0.22	0.050	0.27	2833	0.00	0.45
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Haul	-	-	32.5	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Haul	-	-	32.5	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Haul	4	8	32.5	0.01	0.86	0.12	0.01	0.24	0.015	0.25	0.06	0.014	0.08	810	0.00	0.13
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Haul	14	28	32.5	0.04	2.93	0.43	0.03	0.84	0.052	0.89	0.23	0.050	0.27	2767	0.00	0.44
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Haul	-	-	32.5	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Haul	-	-	32.5	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	2028	Haul	52	104	32.5	0.17	11.74	1.64	0.11	3.08	0.195	3.27	0.83	0.186	1.01	11141	0.01	1.76
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Haul	8	16	34.3	0.03	1.89	0.26	0.02	0.50	0.032	0.53	0.13	0.030	0.16	1805	0.00	0.28
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Haul	8	16	32.5	0.03	1.81	0.25	0.02	0.47	0.030	0.50	0.13	0.029	0.16	1714	0.00	0.27

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate Speeds; **Fleet Mix:100%** HHDT;
Fuel Type: Diesel

2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.

3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 4

SOIL/MATERIAL HAUL TRUCKS (OFFSITE)

											Total Emissions (tons)											Total Emissions (metric tons)			
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Hours per Workday**	**EF Year**	**Trip Type**	**Round Trips per Day**	**Total One-Way Trips per Day**	**One-Way Trip Length (mi)**	**ROG**	**NO_X**	**CO**	**SO_X**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**	**CO_2**	**CH_4**	**N_2O**	**CO_2e**
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	2031	Haul	2	4	34.3	0.00	0.03	0.00	0.00	0.01	0.001	0.01	0.00	0.001	0.00	30	0.00	0.00	31
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	2031	Haul	2	4	34.3	0.00	0.05	0.01	0.00	0.01	0.001	0.01	0.00	0.001	0.00	41	0.00	0.01	43
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	2032	Haul	-	-	34.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	2032	Haul	4	8	34.3	0.00	0.26	0.04	0.00	0.07	0.005	0.08	0.02	0.004	0.02	222	0.00	0.03	232
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	2030	Haul	2	4	34.3	0.00	0.04	0.00	0.00	0.01	0.001	0.01	0.00	0.001	0.00	31	0.00	0.00	32
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	2030	Haul	2	4	34.3	0.00	0.03	0.00	0.00	0.01	0.001	0.01	0.00	0.000	0.00	26	0.00	0.00	27
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	2031	Haul	-	-	34.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	2032	Haul	4	8	34.3	0.00	0.25	0.03	0.00	0.07	0.004	0.07	0.02	0.004	0.02	213	0.00	0.03	223
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	2033	Haul	2	4	34.3	0.00	0.01	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	10	0.00	0.00	11
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	2029	Haul	2	4	34.3	0.00	0.04	0.00	0.00	0.01	0.001	0.01	0.00	0.001	0.00	31	0.00	0.00	33
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	2029	Haul	2	4	34.3	0.00	0.03	0.00	0.00	0.01	0.001	0.01	0.00	0.001	0.00	27	0.00	0.00	28
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	2030	Haul	-	-	34.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	2031	Haul	4	8	34.3	0.00	0.26	0.04	0.00	0.07	0.005	0.08	0.02	0.004	0.02	226	0.00	0.04	237
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	2032	Haul	8	16	34.3	0.00	0.05	0.01	0.00	0.01	0.001	0.01	0.00	0.001	0.00	41	0.00	0.01	43
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Haul	-	-	34.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Haul	-	-	34.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Haul	2	4	34.3	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	1	0.00	0.00	1
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Haul	-	-	34.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Haul	14	28	32.5	0.00	0.12	0.02	0.00	0.03	0.002	0.03	0.01	0.002	0.01	99	0.00	0.02	104
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Haul	-	-	32.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Haul	-	-	32.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Haul	4	8	32.5	0.00	0.33	0.05	0.00	0.09	0.006	0.10	0.03	0.006	0.03	287	0.00	0.05	301
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Haul	14	28	32.5	0.00	0.08	0.01	0.00	0.02	0.001	0.02	0.01	0.001	0.01	65	0.00	0.01	68
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Haul	-	-	32.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Haul	-	-	32.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	2028	Haul	52	104	32.5	0.12	8.43	1.18	0.08	2.21	0.140	2.35	0.59	0.134	0.73	7257	0.01	1.14	7598
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Haul	8	16	34.3	0.04	2.81	0.38	0.03	0.74	0.047	0.79	0.20	0.045	0.24	2434	0.00	0.38	2548
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Haul	8	16	32.5	0.03	2.26	0.32	0.02	0.59	0.037	0.63	0.16	0.036	0.20	1947	0.00	0.31	2038

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate Speeds; **Fleet Mix:100%** HHDT;
Fuel Type: Diesel

2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.

3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 4

PRECAST HAUL TRUCKS (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	Running Emission Factor (g/mile)[1,2,4] ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	2028	Haul	-	-	0.1	0.03	4.68	0.34	0.019	184.1	0.007	184.1	18.4	0.007	18.4	2041.8	0.00	0.32
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	2028	Haul	-	-	0.1	0.03	4.68	0.34	0.019	184.1	0.007	184.1	18.4	0.007	18.4	2041.8	0.00	0.32
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.019	184.1	0.007	184.1	18.4	0.006	18.4	2004.7	0.00	0.32
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.019	184.1	0.007	184.1	18.4	0.006	18.4	2004.7	0.00	0.32
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.019	184.1	0.007	184.1	18.4	0.006	18.4	2004.7	0.00	0.32
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	2030	Haul	16	16	0.1	0.03	4.62	0.33	0.019	184.1	0.007	184.1	18.4	0.006	18.4	1970.4	0.00	0.31
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1908.0	0.00	0.30
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	2/13/2030	4/13/2032	7	791	20	2030	Haul	-	-	0.1	0.03	4.62	0.33	0.019	184.1	0.007	184.1	18.4	0.006	18.4	1970.4	0.00	0.31
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	4/14/2032	9/30/2033	7	535	20	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1908.0	0.00	0.30
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	10/1/2033	5/15/2034	7	227	20	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1880.0	0.00	0.30
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	2027	Haul	-	-	0.1	0.03	4.72	0.35	0.020	184.1	0.007	184.1	18.4	0.007	18.4	2081.8	0.00	0.33
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	2027	Haul	-	-	0.1	0.03	4.72	0.35	0.020	184.1	0.007	184.1	18.4	0.007	18.4	2081.8	0.00	0.33
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	2028	Haul	-	-	0.1	0.03	4.68	0.34	0.019	184.1	0.007	184.1	18.4	0.007	18.4	2041.8	0.00	0.32
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	2028	Haul	-	-	0.1	0.03	4.68	0.34	0.019	184.1	0.007	184.1	18.4	0.007	18.4	2041.8	0.00	0.32
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Haul	-	-	0.1	0.03	4.68	0.34	0.019	184.1	0.007	184.1	18.4	0.007	18.4	2041.8	0.00	0.32
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	2029	Haul	18	18	0.1	0.03	4.65	0.34	0.019	184.1	0.007	184.1	18.4	0.006	18.4	2004.7	0.00	0.32
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1908.0	0.00	0.30
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Fill	3/1/2029	12/31/2032	7	1402	20	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.019	184.1	0.007	184.1	18.4	0.006	18.4	2004.7	0.00	0.32
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Slabs, Walkways, Plenum	9/3/2032	8/31/2034	7	728	20	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1908.0	0.00	0.30
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	2034	Haul	-	-	0.1	0.03	4.53	0.31	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1854.7	0.00	0.29
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.019	184.1	0.007	184.1	18.4	0.006	18.4	2004.7	0.00	0.32
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	2030	Haul	-	-	0.1	0.03	4.62	0.33	0.019	184.1	0.007	184.1	18.4	0.006	18.4	1970.4	0.00	0.31
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	2030	Haul	-	-	0.1	0.03	4.62	0.33	0.019	184.1	0.007	184.1	18.4	0.006	18.4	1970.4	0.00	0.31
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	2032	Haul	2	2	0.1	0.03	4.58	0.32	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1908.0	0.00	0.30
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	11/20/2030	1/15/2031	6	49	20	2030	Haul	-	-	0.1	0.03	4.62	0.33	0.019	184.1	0.007	184.1	18.4	0.006	18.4	1970.4	0.00	0.31
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	2031	Haul	2	2	0.1	0.03	4.60	0.33	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1938.0	0.00	0.31
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	1/5/2034	2/3/2034	6	26	20	2034	Haul	-	-	0.1	0.03	4.53	0.31	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1854.7	0.00	0.29
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	2034	Haul	-	-	0.1	0.03	4.53	0.31	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1854.7	0.00	0.29
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	2034	Haul	-	-	0.1	0.03	4.53	0.31	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1854.7	0.00	0.29
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	8/18/2032	8/15/2033	6	311	20	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1908.0	0.00	0.30
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Haul	-	-	0.1	0.03	4.62	0.33	0.019	184.1	0.007	184.1	18.4	0.006	18.4	1970.4	0.00	0.31
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	2030	Haul	-	-	0.1	0.03	4.62	0.33	0.019	184.1	0.007	184.1	18.4	0.006	18.4	1970.4	0.00	0.31
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Haul	-	-	0.1	0.03	4.72	0.35	0.020	184.1	0.007	184.1	18.4	0.007	18.4	2081.8	0.00	0.33
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Haul	-	-	0.1	0.03	4.68	0.34	0.019	184.1	0.007	184.1	18.4	0.007	18.4	2041.8	0.00	0.32
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.019	184.1	0.007	184.1	18.4	0.006	18.4	2004.7	0.00	0.32
Metro E Line Stn_U-Alt4-TBM Pass Through-Maintenance	6/1/2030	7/31/2030	6	52	20	2030	Haul	-	-	0.1	0.03	4.62	0.33	0.019	184.1	0.007	184.1	18.4	0.006	18.4	1970.4	0.00	0.31
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	2030	Haul	-	-	0.1	0.03	4.62	0.33	0.019	184.1	0.007	184.1	18.4	0.006	18.4	1970.4	0.00	0.31
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	2031	Haul	-	-	0.1	0.03	4.60	0.33	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1938.0	0.00	0.31
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	2034	Haul	-	-	0.1	0.03	4.53	0.31	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1854.7	0.00	0.29
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	2028	Haul	-	-	0.1	0.03	4.68	0.34	0.019	184.1	0.007	184.1	18.4	0.007	18.4	2041.8	0.00	0.32
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.019	184.1	0.007	184.1	18.4	0.006	18.4	2004.7	0.00	0.32
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.019	184.1	0.007	184.1	18.4	0.006	18.4	2004.7	0.00	0.32
Santa Monica Stn_U-Alt4-TBM Pass Through-Maintenance	1/1/2031	2/28/2031	6	51	20	2031	Haul	-	-	0.1	0.03	4.60	0.33	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1938.0	0.00	0.31
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	2030	Haul	-	-	0.1	0.03	4.62	0.33	0.019	184.1	0.007	184.1	18.4	0.006	18.4	1970.4	0.00	0.31
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1908.0	0.00	0.30
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.019	184.1	0.007	184.1	18.4	0.006	18.4	2004.7	0.00	0.32
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.019	184.1	0.007	184.1	18.4	0.006	18.4	2004.7	0.00	0.32
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	2030	Haul	-	-	0.1	0.03	4.62	0.33	0.019	184.1	0.007	184.1	18.4	0.006	18.4	1970.4	0.00	0.31
D Line Wilshire-Westwood Stn_U-Alt4-TBM Pass Through-Maintenance	8/1/2031	9/30/2031	6	52	20	2031	Haul	-	-	0.1	0.03	4.60	0.33	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1938.0	0.00	0.31
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	2031	Haul	-	-	0.1	0.03	4.60	0.33	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1938.0	0.00	0.31
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1908.0	0.00	0.30
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	2028	Haul	-	-	0.1	0.03	4.68	0.34	0.019	184.1	0.007	184.1	18.4	0.007	18.4	2041.8	0.00	0.32
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.019	184.1	0.007	184.1	18.4	0.006	18.4	2004.7	0.00	0.32
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.019	184.1	0.007	184.1	18.4	0.006	18.4	2004.7	0.00	0.32
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	2030	Haul	-	-	0.1	0.03	4.62	0.33	0.019	184.1	0.007	184.1	18.4	0.006	18.4	1970.4	0.00	0.31
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1908.0	0.00	0.30
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1880.0	0.00	0.30
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	2031	Haul	-	-	0.1	0.03	4.60	0.33	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1938.0	0.00	0.31
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1908.0	0.00	0.30
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	2033	Haul	2	2	0.1	0.03	4.56	0.32	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1880.0	0.00	0.30
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1880.0	0.00	0.30
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	2035	Haul	-	-	0.1	0.03	4.51	0.31	0.017	184.1	0.007	184.1	18.4	0.006	18.4	1831.9	0.00	0.29

Sepulveda Transit Corridor Project - ALTERNATIVE 4

PRECAST HAUL TRUCKS (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	Non-Running Emission Factor (g/trip)[1,3] ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	2028	Haul	-	-	0.1	0.36	6.75	5.37	0.007	-	0.002	0.002	-	0.001	0.001	781.5	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	2028	Haul	-	-	0.1	0.36	6.75	5.37	0.007	-	0.002	0.002	-	0.001	0.001	781.5	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	2030	Haul	16	16	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	2/13/2030	4/13/2032	7	791	20	2030	Haul	-	-	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	4/14/2032	9/30/2033	7	535	20	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	10/1/2033	5/15/2034	7	227	20	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	2027	Haul	-	-	0.1	0.36	6.88	5.37	0.008	-	0.002	0.002	-	0.001	0.001	795.6	0.02	0.13
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	2027	Haul	-	-	0.1	0.36	6.88	5.37	0.008	-	0.002	0.002	-	0.001	0.001	795.6	0.02	0.13
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	2028	Haul	-	-	0.1	0.36	6.75	5.37	0.007	-	0.002	0.002	-	0.001	0.001	781.5	0.02	0.12
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	2028	Haul	-	-	0.1	0.36	6.75	5.37	0.007	-	0.002	0.002	-	0.001	0.001	781.5	0.02	0.12
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Haul	-	-	0.1	0.36	6.75	5.37	0.007	-	0.002	0.002	-	0.001	0.001	781.5	0.02	0.12
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	2029	Haul	18	18	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Fill	3/1/2029	12/31/2032	7	1402	20	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Slabs, Walkways, Plenum	9/3/2032	8/31/2034	7	728	20	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	2034	Haul	-	-	0.1	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	2030	Haul	-	-	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	2030	Haul	-	-	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	2032	Haul	2	2	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	11/20/2030	1/15/2031	6	49	20	2030	Haul	-	-	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	2031	Haul	2	2	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	1/5/2034	2/3/2034	6	26	20	2034	Haul	-	-	0.1	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	2034	Haul	-	-	0.1	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	2034	Haul	-	-	0.1	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	8/18/2032	8/15/2033	6	311	20	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Haul	-	-	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	2030	Haul	-	-	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Haul	-	-	0.1	0.36	6.88	5.37	0.008	-	0.002	0.002	-	0.001	0.001	795.6	0.02	0.13
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Haul	-	-	0.1	0.36	6.75	5.37	0.007	-	0.002	0.002	-	0.001	0.001	781.5	0.02	0.12
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Metro E Line Stn_U-Alt4-TBM Pass Through-Maintenance	6/1/2030	7/31/2030	6	52	20	2030	Haul	-	-	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	2030	Haul	-	-	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	2031	Haul	-	-	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	2034	Haul	-	-	0.1	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	2028	Haul	-	-	0.1	0.36	6.75	5.37	0.007	-	0.002	0.002	-	0.001	0.001	781.5	0.02	0.12
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Santa Monica Stn_U-Alt4-TBM Pass Through-Maintenance	1/1/2031	2/28/2031	6	51	20	2031	Haul	-	-	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	2030	Haul	-	-	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	2030	Haul	-	-	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
D Line Wilshire-Westwood Stn_U-Alt4-TBM Pass Through-Maintenance	8/1/2031	9/30/2031	6	52	20	2031	Haul	-	-	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	2031	Haul	-	-	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	2028	Haul	-	-	0.1	0.36	6.75	5.37	0.007	-	0.002	0.002	-	0.001	0.001	781.5	0.02	0.12
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	2030	Haul	-	-	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	2031	Haul	-	-	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	2033	Haul	2	2	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	2035	Haul	-	-	0.1	0.37	6.33	5.50	0.007	-	0.002	0.002	-	0.002	0.002	731.2	0.02	0.12

Sepulveda Transit Corridor Project - ALTERNATIVE 4

PRECAST HAUL TRUCKS (ONSITE)

											Daily Emissions (lb/day)													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	2028	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	2028	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	2030	Haul	16	16	0.1	0.01	0.25	0.19	0.00	0.65	0.000	0.65	0.06	0.000	0.06	34	0.00	0.01
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	2/13/2030	4/13/2032	7	791	20	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	4/14/2032	9/30/2033	7	535	20	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	10/1/2033	5/15/2034	7	227	20	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	2027	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	2027	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	2028	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	2028	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	2029	Haul	18	18	0.1	0.01	0.28	0.21	0.00	0.73	0.000	0.73	0.07	0.000	0.07	38	0.00	0.01
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Fill	3/1/2029	12/31/2032	7	1402	20	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Slabs, Walkways, Plenum	9/3/2032	8/31/2034	7	728	20	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	2032	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.000	0.08	0.01	0.000	0.01	4	0.00	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	11/20/2030	1/15/2031	6	49	20	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	2031	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.000	0.08	0.01	0.000	0.01	4	0.00	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	1/5/2034	2/3/2034	6	26	20	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	8/18/2032	8/15/2033	6	311	20	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-TBM Pass Through-Maintenance	6/1/2030	7/31/2030	6	52	20	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	2028	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-TBM Pass Through-Maintenance	1/1/2031	2/28/2031	6	51	20	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-TBM Pass Through-Maintenance	8/1/2031	9/30/2031	6	52	20	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	2028	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	2033	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.000	0.08	0.01	0.000	0.01	4	0.00	0.00
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	2035	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 4

PRECAST HAUL TRUCKS (ONSITE)

											Total Emissions (tons)											Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	2028	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	2028	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	2030	Haul	16	16	0.1	0.01	0.10	0.08	0.00	0.26	0.000	0.26	0.03	0.000	0.03	12.1	0.00	0.00	12.7
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	2/13/2030	4/13/2032	7	791	20	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	4/14/2032	9/30/2033	7	535	20	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	10/1/2033	5/15/2034	7	227	20	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	2027	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	2027	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	2028	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	2028	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	2029	Haul	18	18	0.1	0.01	0.20	0.15	0.00	0.51	0.000	0.51	0.05	0.000	0.05	24.3	0.00	0.00	25.5
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Fill	3/1/2029	12/31/2032	7	1402	20	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Slabs, Walkways, Plenum	9/3/2032	8/31/2034	7	728	20	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	2032	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.000	0.01	0.00	0.000	0.00	0.3	0.00	0.00	0.4
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	11/20/2030	1/15/2031	6	49	20	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	2031	Haul	2	2	0.1	0.00	0.01	0.01	0.00	0.04	0.000	0.04	0.00	0.000	0.00	1.8	0.00	0.00	1.8
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	1/5/2034	2/3/2034	6	26	20	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	8/18/2032	8/15/2033	6	311	20	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-TBM Pass Through-Maintenance	6/1/2030	7/31/2030	6	52	20	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	2028	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-TBM Pass Through-Maintenance	1/1/2031	2/28/2031	6	51	20	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-TBM Pass Through-Maintenance	8/1/2031	9/30/2031	6	52	20	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	2028	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	2033	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.000	0.01	0.00	0.000	0.00	0.3	0.00	0.00	0.3
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	2035	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 4

PRECAST HAUL TRUCKS (ONSITE)

											Running Emission Factor (g/mile)[1,2,4]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	2031	Haul	-	-	0.1	0.03	4.60	0.33	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1938.0	0.00	0.31
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	2031	Haul	-	-	0.1	0.03	4.60	0.33	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1938.0	0.00	0.31
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	2032	Haul	2	2	0.1	0.03	4.58	0.32	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1908.0	0.00	0.30
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1908.0	0.00	0.30
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	2030	Haul	-	-	0.1	0.03	4.62	0.33	0.019	184.1	0.007	184.1	18.4	0.006	18.4	1970.4	0.00	0.31
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	2030	Haul	-	-	0.1	0.03	4.62	0.33	0.019	184.1	0.007	184.1	18.4	0.006	18.4	1970.4	0.00	0.31
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	2031	Haul	2	2	0.1	0.03	4.60	0.33	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1938.0	0.00	0.31
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1908.0	0.00	0.30
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1880.0	0.00	0.30
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.019	184.1	0.007	184.1	18.4	0.006	18.4	2004.7	0.00	0.32
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.019	184.1	0.007	184.1	18.4	0.006	18.4	2004.7	0.00	0.32
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	2030	Haul	2	2	0.1	0.03	4.62	0.33	0.019	184.1	0.007	184.1	18.4	0.006	18.4	1970.4	0.00	0.31
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	2031	Haul	-	-	0.1	0.03	4.60	0.33	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1938.0	0.00	0.31
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1908.0	0.00	0.30
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Haul	-	-	0.1	0.03	4.53	0.31	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1854.7	0.00	0.29
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Haul	-	-	0.1	0.03	4.53	0.31	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1854.7	0.00	0.29
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Haul	-	-	0.1	0.03	4.53	0.31	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1854.7	0.00	0.29
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Haul	-	-	0.1	0.03	4.53	0.31	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1854.7	0.00	0.29
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1908.0	0.00	0.30
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1908.0	0.00	0.30
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1908.0	0.00	0.30
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1908.0	0.00	0.30
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Haul	-	-	0.1	0.03	4.53	0.31	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1854.7	0.00	0.29
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Haul	-	-	0.1	0.03	4.53	0.31	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1854.7	0.00	0.29
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.018	184.1	0.007	184.1	18.4	0.006	18.4	1908.0	0.00	0.30
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	2028	Haul	-	-	0.1	0.03	4.68	0.34	0.019	184.1	0.007	184.1	18.4	0.007	18.4	2041.8	0.00	0.32
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Haul	-	-	0.1	0.03	4.68	0.34	0.019	184.1	0.007	184.1	18.4	0.007	18.4	2041.8	0.00	0.32
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Haul	-	-	0.1	0.03	4.68	0.34	0.019	184.1	0.007	184.1	18.4	0.007	18.4	2041.8	0.00	0.32

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** 100% HHDT; **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 4

PRECAST HAUL TRUCKS (ONSITE)

											Non-Running Emission Factor (g/trip)[1,3]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	2031	Haul	-	-	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	2031	Haul	-	-	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	2032	Haul	2	2	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	2030	Haul	-	-	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	2030	Haul	-	-	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	2031	Haul	2	2	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	2030	Haul	2	2	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	2031	Haul	-	-	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Haul	-	-	0.1	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Haul	-	-	0.1	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Haul	-	-	0.1	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Haul	-	-	0.1	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Haul	-	-	0.1	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Haul	-	-	0.1	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	2028	Haul	-	-	0.1	0.36	6.75	5.37	0.007	-	0.002	0.002	-	0.001	0.001	781.5	0.02	0.12
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Haul	-	-	0.1	0.36	6.75	5.37	0.007	-	0.002	0.002	-	0.001	0.001	781.5	0.02	0.12
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Haul	-	-	0.1	0.36	6.75	5.37	0.007	-	0.002	0.002	-	0.001	0.001	781.5	0.02	0.12

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** 100% HHDT; **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 4

PRECAST HAUL TRUCKS (ONSITE)

											Daily Emissions (lb/day)												
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Hours per Workday**	**EF Year**	**Trip Type**	**Round Trips per Day**	**Daily Onsite Trips**	**One-Way Trip Length (mi)**	**ROG**	**NO_x**	**CO**	**SO_x**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**	**CO_2**	**CH_4**	**N_2O**
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	2032	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.000	0.08	0.01	0.000	0.01	4	0.00	0.00
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	2031	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.000	0.08	0.01	0.000	0.01	4	0.00	0.00
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	2030	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.000	0.08	0.01	0.000	0.01	4	0.00	0.00
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	2028	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** 100% HHDT; **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 4

PRECAST HAUL TRUCKS (ONSITE)

											Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	2032	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.000	0.01	0.00	0.000	0.00	0.2	0.00	0.00	0.3
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	2031	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.000	0.01	0.00	0.000	0.00	0.4	0.00	0.00	0.5
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	2030	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.000	0.01	0.00	0.000	0.00	0.4	0.00	0.00	0.5
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	2028	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

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4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

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*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 4

PRECAST HAUL TRUCKS (OFFSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Running Emission Factor (g/mile)[1,2] ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	2028	Haul	-	-	16.0	0.01	1.37	0.06	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1471.1	0.00	0.23
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	2028	Haul	-	-	16.0	0.01	1.37	0.06	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1471.1	0.00	0.23
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	2029	Haul	-	-	16.0	0.01	1.35	0.05	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1449.0	0.00	0.23
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	2029	Haul	-	-	16.0	0.01	1.35	0.05	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1449.0	0.00	0.23
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	2029	Haul	-	-	16.0	0.01	1.35	0.05	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1449.0	0.00	0.23
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	2030	Haul	16	32	16.0	0.01	1.33	0.05	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1428.2	0.00	0.23
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	2032	Haul	-	-	16.0	0.01	1.30	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1389.5	0.00	0.22
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	2/13/2030	4/13/2032	7	791	20	2030	Haul	-	-	16.0	0.01	1.33	0.05	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1428.2	0.00	0.23
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	4/14/2032	9/30/2033	7	535	20	2032	Haul	-	-	16.0	0.01	1.30	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1389.5	0.00	0.22
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	10/1/2033	5/15/2034	7	227	20	2033	Haul	-	-	16.0	0.01	1.28	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1372.5	0.00	0.22
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	2027	Haul	-	-	6.0	0.01	1.39	0.06	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1494.1	0.00	0.24
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	2027	Haul	-	-	6.0	0.01	1.39	0.06	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1494.1	0.00	0.24
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	2028	Haul	-	-	6.0	0.01	1.37	0.06	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1471.1	0.00	0.23
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	2028	Haul	-	-	6.0	0.01	1.37	0.06	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1471.1	0.00	0.23
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Haul	-	-	6.0	0.01	1.37	0.06	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1471.1	0.00	0.23
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	2029	Haul	18	36	6.0	0.01	1.35	0.05	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1449.0	0.00	0.23
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	2032	Haul	-	-	6.0	0.01	1.30	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1389.5	0.00	0.22
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Fill	3/1/2029	12/31/2032	7	1402	20	2029	Haul	-	-	6.0	0.01	1.35	0.05	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1449.0	0.00	0.23
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Slabs, Walkways, Plenum	9/3/2032	8/31/2034	7	728	20	2032	Haul	-	-	6.0	0.01	1.30	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1389.5	0.00	0.22
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	2034	Haul	-	-	6.0	0.01	1.27	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1356.7	0.00	0.21
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	2029	Haul	-	-	6.0	0.01	1.35	0.05	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1449.0	0.00	0.23
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	2030	Haul	-	-	6.0	0.01	1.33	0.05	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1428.2	0.00	0.23
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	2030	Haul	-	-	6.0	0.01	1.33	0.05	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1428.2	0.00	0.23
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	2032	Haul	2	4	6.0	0.01	1.30	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1389.5	0.00	0.22
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	11/20/2030	1/15/2031	6	49	20	2030	Haul	-	-	6.0	0.01	1.33	0.05	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1428.2	0.00	0.23
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	2031	Haul	2	4	6.0	0.01	1.31	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1408.2	0.00	0.22
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	1/5/2034	2/3/2034	6	26	20	2034	Haul	-	-	6.0	0.01	1.27	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1356.7	0.00	0.21
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	2034	Haul	-	-	6.0	0.01	1.27	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1356.7	0.00	0.21
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	2034	Haul	-	-	6.0	0.01	1.27	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1356.7	0.00	0.21
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	8/18/2032	8/15/2033	6	311	20	2032	Haul	-	-	6.0	0.01	1.30	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1389.5	0.00	0.22
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Haul	-	-	16.0	0.01	1.33	0.05	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1428.2	0.00	0.23
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	2030	Haul	-	-	16.0	0.01	1.33	0.05	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1428.2	0.00	0.23
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Haul	-	-	16.0	0.01	1.39	0.06	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1494.1	0.00	0.24
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Haul	-	-	16.0	0.01	1.37	0.06	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1471.1	0.00	0.23
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	2029	Haul	-	-	16.0	0.01	1.35	0.05	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1449.0	0.00	0.23
Metro E Line Stn_U-Alt4-TBM Pass Through-Maintenance	6/1/2030	7/31/2030	6	52	20	2030	Haul	-	-	16.0	0.01	1.33	0.05	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1428.2	0.00	0.23
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	2030	Haul	-	-	16.0	0.01	1.33	0.05	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1428.2	0.00	0.23
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	2031	Haul	-	-	16.0	0.01	1.31	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1408.2	0.00	0.22
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	2034	Haul	-	-	16.0	0.01	1.27	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1356.7	0.00	0.21
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	2028	Haul	-	-	16.0	0.01	1.37	0.06	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1471.1	0.00	0.23
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	2029	Haul	-	-	16.0	0.01	1.35	0.05	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1449.0	0.00	0.23
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	2029	Haul	-	-	16.0	0.01	1.35	0.05	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1449.0	0.00	0.23
Santa Monica Stn_U-Alt4-TBM Pass Through-Maintenance	1/1/2031	2/28/2031	6	51	20	2031	Haul	-	-	16.0	0.01	1.31	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1408.2	0.00	0.22
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	2030	Haul	-	-	16.0	0.01	1.33	0.05	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1428.2	0.00	0.23
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	2032	Haul	-	-	16.0	0.01	1.30	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1389.5	0.00	0.22
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	2029	Haul	-	-	16.0	0.01	1.35	0.05	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1449.0	0.00	0.23
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	2029	Haul	-	-	16.0	0.01	1.35	0.05	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1449.0	0.00	0.23
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	2030	Haul	-	-	16.0	0.01	1.33	0.05	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1428.2	0.00	0.23
D Line Wilshire-Westwood Stn_U-Alt4-TBM Pass Through-Maintenance	8/1/2031	9/30/2031	6	52	20	2031	Haul	-	-	16.0	0.01	1.31	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1408.2	0.00	0.22
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	2031	Haul	-	-	16.0	0.01	1.31	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1408.2	0.00	0.22
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	2032	Haul	-	-	16.0	0.01	1.30	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1389.5	0.00	0.22
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	2028	Haul	-	-	16.0	0.01	1.37	0.06	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1471.1	0.00	0.23
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	2029	Haul	-	-	16.0	0.01	1.35	0.05	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1449.0	0.00	0.23
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	2029	Haul	-	-	16.0	0.01	1.35	0.05	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1449.0	0.00	0.23
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	2030	Haul	-	-	16.0	0.01	1.33	0.05	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1428.2	0.00	0.23
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	2032	Haul	-	-	16.0	0.01	1.30	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1389.5	0.00	0.22
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	2033	Haul	-	-	16.0	0.01	1.28	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1372.5	0.00	0.22
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	2031	Haul	-	-	6.0	0.01	1.31	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1408.2	0.00	0.22
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	2032	Haul	-	-	6.0	0.01	1.30	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1389.5	0.00	0.22
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	2033	Haul	2	4	6.0	0.01	1.28	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1372.5	0.00	0.22
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	2033	Haul	-	-	6.0	0.01	1.28	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1372.5	0.00	0.22
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	2035	Haul	-	-	6.0	0.01	1.25	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1342.3	0.00	0.21

Sepulveda Transit Corridor Project - ALTERNATIVE 4

PRECAST HAUL TRUCKS (OFFSITE)

											Non-Running Emission Factor (g/trip)[1,3]													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	2028	Haul	-	-	16.0	0.36	6.75	5.37	0.007	-	0.002	0.002	-	0.001	0.001	781.5	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	2028	Haul	-	-	16.0	0.36	6.75	5.37	0.007	-	0.002	0.002	-	0.001	0.001	781.5	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	2029	Haul	-	-	16.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	2029	Haul	-	-	16.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	2029	Haul	-	-	16.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	2030	Haul	16	32	16.0	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	2032	Haul	-	-	16.0	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	2/13/2030	4/13/2032	7	791	20	2030	Haul	-	-	16.0	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	4/14/2032	9/30/2033	7	535	20	2032	Haul	-	-	16.0	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	10/1/2033	5/15/2034	7	227	20	2033	Haul	-	-	16.0	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	2027	Haul	-	-	6.0	0.36	6.88	5.37	0.008	-	0.002	0.002	-	0.001	0.001	795.6	0.02	0.13
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	2027	Haul	-	-	6.0	0.36	6.88	5.37	0.008	-	0.002	0.002	-	0.001	0.001	795.6	0.02	0.13
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	2028	Haul	-	-	6.0	0.36	6.75	5.37	0.007	-	0.002	0.002	-	0.001	0.001	781.5	0.02	0.12
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	2028	Haul	-	-	6.0	0.36	6.75	5.37	0.007	-	0.002	0.002	-	0.001	0.001	781.5	0.02	0.12
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Haul	-	-	6.0	0.36	6.75	5.37	0.007	-	0.002	0.002	-	0.001	0.001	781.5	0.02	0.12
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	2029	Haul	18	36	6.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	2032	Haul	-	-	6.0	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Fill	3/1/2029	12/31/2032	7	1402	20	2029	Haul	-	-	6.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Slabs, Walkways, Plenum	9/3/2032	8/31/2034	7	728	20	2032	Haul	-	-	6.0	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	2034	Haul	-	-	6.0	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	2029	Haul	-	-	6.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	2030	Haul	-	-	6.0	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	2030	Haul	-	-	6.0	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	2032	Haul	2	4	6.0	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	11/20/2030	1/15/2031	6	49	20	2030	Haul	-	-	6.0	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	2031	Haul	2	4	6.0	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	1/5/2034	2/3/2034	6	26	20	2034	Haul	-	-	6.0	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	2034	Haul	-	-	6.0	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	2034	Haul	-	-	6.0	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	8/18/2032	8/15/2033	6	311	20	2032	Haul	-	-	6.0	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Haul	-	-	16.0	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	2030	Haul	-	-	16.0	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Haul	-	-	16.0	0.36	6.88	5.37	0.008	-	0.002	0.002	-	0.001	0.001	795.6	0.02	0.13
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Haul	-	-	16.0	0.36	6.75	5.37	0.007	-	0.002	0.002	-	0.001	0.001	781.5	0.02	0.12
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	2029	Haul	-	-	16.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Metro E Line Stn_U-Alt4-TBM Pass Through-Maintenance	6/1/2030	7/31/2030	6	52	20	2030	Haul	-	-	16.0	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	2030	Haul	-	-	16.0	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	2031	Haul	-	-	16.0	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	2034	Haul	-	-	16.0	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	2028	Haul	-	-	16.0	0.36	6.75	5.37	0.007	-	0.002	0.002	-	0.001	0.001	781.5	0.02	0.12
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	2029	Haul	-	-	16.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	2029	Haul	-	-	16.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Santa Monica Stn_U-Alt4-TBM Pass Through-Maintenance	1/1/2031	2/28/2031	6	51	20	2031	Haul	-	-	16.0	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	2030	Haul	-	-	16.0	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	2032	Haul	-	-	16.0	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	2029	Haul	-	-	16.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	2029	Haul	-	-	16.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	2030	Haul	-	-	16.0	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
D Line Wilshire-Westwood Stn_U-Alt4-TBM Pass Through-Maintenance	8/1/2031	9/30/2031	6	52	20	2031	Haul	-	-	16.0	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	2031	Haul	-	-	16.0	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	2032	Haul	-	-	16.0	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	2028	Haul	-	-	16.0	0.36	6.75	5.37	0.007	-	0.002	0.002	-	0.001	0.001	781.5	0.02	0.12
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	2029	Haul	-	-	16.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	2029	Haul	-	-	16.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	2030	Haul	-	-	16.0	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	2032	Haul	-	-	16.0	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	2033	Haul	-	-	16.0	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	2031	Haul	-	-	6.0	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	2032	Haul	-	-	6.0	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	2033	Haul	2	4	6.0	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	2033	Haul	-	-	6.0	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	2035	Haul	-	-	6.0	0.37	6.33	5.50	0.007	-	0.002	0.002	-	0.002	0.002	731.2	0.02	0.12

Sepulveda Transit Corridor Project - ALTERNATIVE 4

PRECAST HAUL TRUCKS (OFFSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Daily Emissions (lb/day)													
											ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	2028	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	2028	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	2029	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	2029	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	2029	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	2030	Haul	16	32	16.0	0.04	1.96	0.44	0.02	0.47	0.030	0.50	0.13	0.028	0.15	1666	0.00	0.26
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	2032	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	2/13/2030	4/13/2032	7	791	20	2030	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	4/14/2032	9/30/2033	7	535	20	2032	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	10/1/2033	5/15/2034	7	227	20	2033	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	2027	Haul	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	2027	Haul	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	2028	Haul	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	2028	Haul	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Haul	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	2029	Haul	18	36	6.0	0.03	1.17	0.45	0.01	0.20	0.013	0.21	0.05	0.012	0.06	751	0.00	0.12
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	2032	Haul	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Fill	3/1/2029	12/31/2032	7	1402	20	2029	Haul	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Slabs, Walkways, Plenum	9/3/2032	8/31/2034	7	728	20	2032	Haul	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	2034	Haul	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	2029	Haul	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	2030	Haul	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	2030	Haul	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	2032	Haul	2	4	6.0	0.00	0.13	0.05	0.00	0.02	0.001	0.02	0.01	0.001	0.01	80	0.00	0.01
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	11/20/2030	1/15/2031	6	49	20	2030	Haul	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	2031	Haul	2	4	6.0	0.00	0.13	0.05	0.00	0.02	0.001	0.02	0.01	0.001	0.01	81	0.00	0.01
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	1/5/2034	2/3/2034	6	26	20	2034	Haul	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	2034	Haul	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	2034	Haul	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	8/18/2032	8/15/2033	6	311	20	2032	Haul	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	2030	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	2029	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-TBM Pass Through-Maintenance	6/1/2030	7/31/2030	6	52	20	2030	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	2030	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	2031	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	2034	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	2028	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	2029	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	2029	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-TBM Pass Through-Maintenance	1/1/2031	2/28/2031	6	51	20	2031	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	2030	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	2032	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	2029	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	2029	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	2030	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-TBM Pass Through-Maintenance	8/1/2031	9/30/2031	6	52	20	2031	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	2031	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	2032	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	2028	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	2029	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	2029	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	2030	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	2032	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	2033	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	2031	Haul	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	2032	Haul	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	2033	Haul	2	4	6.0	0.00	0.12	0.05	0.00	0.02	0.001	0.02	0.01	0.001	0.01	79	0.00	0.01
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	2033	Haul	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	2035	Haul	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 4

PRECAST HAUL TRUCKS (OFFSITE)

											Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	2028	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	2028	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	2029	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	2029	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	2029	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	2030	Haul	16	32	16.0	0.02	0.77	0.17	0.01	0.19	0.012	0.20	0.05	0.011	0.06	597.6	0.00	0.09	625.7
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	2032	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	2/13/2030	4/13/2032	7	791	20	2030	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	4/14/2032	9/30/2033	7	535	20	2032	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	10/1/2033	5/15/2034	7	227	20	2033	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	2027	Haul	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	2027	Haul	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	2028	Haul	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	2028	Haul	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Haul	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	2029	Haul	18	36	6.0	0.02	0.81	0.32	0.00	0.14	0.009	0.15	0.04	0.008	0.05	475.3	0.00	0.07	497.6
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	2032	Haul	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Fill	3/1/2029	12/31/2032	7	1402	20	2029	Haul	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Slabs, Walkways, Plenum	9/3/2032	8/31/2034	7	728	20	2032	Haul	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	2034	Haul	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	2029	Haul	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	2030	Haul	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	2030	Haul	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	2032	Haul	2	4	6.0	0.00	0.01	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	6.7	0.00	0.00	7.0
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	11/20/2030	1/15/2031	6	49	20	2030	Haul	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	2031	Haul	2	4	6.0	0.00	0.06	0.02	0.00	0.01	0.001	0.01	0.00	0.001	0.00	34.2	0.00	0.01	35.8
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	1/5/2034	2/3/2034	6	26	20	2034	Haul	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	2034	Haul	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	2034	Haul	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	8/18/2032	8/15/2033	6	311	20	2032	Haul	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	2030	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	2029	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-TBM Pass Through-Maintenance	6/1/2030	7/31/2030	6	52	20	2030	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	2030	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	2031	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	2034	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	2028	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	2029	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	2029	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-TBM Pass Through-Maintenance	1/1/2031	2/28/2031	6	51	20	2031	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	2030	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	2032	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	2029	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	2029	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	2030	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-TBM Pass Through-Maintenance	8/1/2031	9/30/2031	6	52	20	2031	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	2031	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	2032	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	2028	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	2029	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	2029	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	2030	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	2032	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	2033	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	2031	Haul	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	2032	Haul	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	2033	Haul	2	4	6.0	0.00	0.01	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	5.5	0.00	0.00	5.7
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	2033	Haul	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	2035	Haul	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 4

PRECAST HAUL TRUCKS (OFFSITE)

											Running Emission Factor (g/mile)[1,2]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	2031	Haul	-	-	6.0	0.01	1.31	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1408.2	0.00	0.22
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	2031	Haul	-	-	6.0	0.01	1.31	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1408.2	0.00	0.22
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	2032	Haul	2	4	6.0	0.01	1.30	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1389.5	0.00	0.22
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	2032	Haul	-	-	6.0	0.01	1.30	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1389.5	0.00	0.22
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	2030	Haul	-	-	2.0	0.01	1.33	0.05	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1428.2	0.00	0.23
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	2030	Haul	-	-	2.0	0.01	1.33	0.05	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1428.2	0.00	0.23
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	2031	Haul	2	4	2.0	0.01	1.31	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1408.2	0.00	0.22
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	2032	Haul	-	-	2.0	0.01	1.30	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1389.5	0.00	0.22
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	2033	Haul	-	-	2.0	0.01	1.28	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1372.5	0.00	0.22
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	2029	Haul	-	-	6.0	0.01	1.35	0.05	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1449.0	0.00	0.23
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	2029	Haul	-	-	6.0	0.01	1.35	0.05	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1449.0	0.00	0.23
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	2030	Haul	2	4	6.0	0.01	1.33	0.05	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1428.2	0.00	0.23
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	2031	Haul	-	-	6.0	0.01	1.31	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1408.2	0.00	0.22
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	2032	Haul	-	-	6.0	0.01	1.30	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1389.5	0.00	0.22
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Haul	-	-	6.0	0.01	1.27	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1356.7	0.00	0.21
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Haul	-	-	6.0	0.01	1.27	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1356.7	0.00	0.21
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Haul	-	-	6.0	0.01	1.27	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1356.7	0.00	0.21
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Haul	-	-	6.0	0.01	1.27	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1356.7	0.00	0.21
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Haul	-	-	16.0	0.01	1.30	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1389.5	0.00	0.22
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Haul	-	-	16.0	0.01	1.30	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1389.5	0.00	0.22
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Haul	-	-	16.0	0.01	1.30	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1389.5	0.00	0.22
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Haul	-	-	16.0	0.01	1.30	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1389.5	0.00	0.22
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Haul	-	-	16.0	0.01	1.27	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1356.7	0.00	0.21
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Haul	-	-	16.0	0.01	1.27	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1356.7	0.00	0.21
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Haul	-	-	16.0	0.01	1.30	0.05	0.013	0.4	0.026	0.4	0.1	0.025	0.1	1389.5	0.00	0.22
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	2028	Haul	-	-	16.0	0.01	1.37	0.06	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1471.1	0.00	0.23
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Haul	-	-	16.0	0.01	1.37	0.06	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1471.1	0.00	0.23
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Haul	-	-	16.0	0.01	1.37	0.06	0.014	0.4	0.026	0.4	0.1	0.025	0.1	1471.1	0.00	0.23

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate Speeds; **Fleet Mix:100%** HHDT;
Fuel Type: Diesel
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 4

PRECAST HAUL TRUCKS (OFFSITE)

											Non-Running Emission Factor (g/trip)[1,3]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	2031	Haul	-	-	6.0	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	2031	Haul	-	-	6.0	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	2032	Haul	2	4	6.0	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	2032	Haul	-	-	6.0	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	2030	Haul	-	-	2.0	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	2030	Haul	-	-	2.0	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	2031	Haul	2	4	2.0	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	2032	Haul	-	-	2.0	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	2033	Haul	-	-	2.0	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	2029	Haul	-	-	6.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	2029	Haul	-	-	6.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	2030	Haul	2	4	6.0	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	2031	Haul	-	-	6.0	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	2032	Haul	-	-	6.0	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Haul	-	-	6.0	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Haul	-	-	6.0	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Haul	-	-	6.0	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Haul	-	-	6.0	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Haul	-	-	16.0	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Haul	-	-	16.0	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Haul	-	-	16.0	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Haul	-	-	16.0	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Haul	-	-	16.0	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Haul	-	-	16.0	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Haul	-	-	16.0	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	2028	Haul	-	-	16.0	0.36	6.75	5.37	0.007	-	0.002	0.002	-	0.001	0.001	781.5	0.02	0.12
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Haul	-	-	16.0	0.36	6.75	5.37	0.007	-	0.002	0.002	-	0.001	0.001	781.5	0.02	0.12
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Haul	-	-	16.0	0.36	6.75	5.37	0.007	-	0.002	0.002	-	0.001	0.001	781.5	0.02	0.12

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate Speeds; **Fleet Mix:100%** HHDT;
Fuel Type: Diesel
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 4

PRECAST HAUL TRUCKS (OFFSITE)

											Daily Emissions (lb/day)												
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Hours per Workday**	**EF Year**	**Trip Type**	**Round Trips per Day**	**Total One-Way Trips per Day**	**One-Way Trip Length (mi)**	**ROG**	**NO_x**	**CO**	**SO_x**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**	**CO_2**	**CH_4**	**N_2O**
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	2031	Haul	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	2031	Haul	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	2032	Haul	2	4	6.0	0.00	0.13	0.05	0.00	0.02	0.001	0.02	0.01	0.001	0.01	80	0.00	0.01
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	2032	Haul	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	2030	Haul	-	-	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	2030	Haul	-	-	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	2031	Haul	2	4	2.0	0.00	0.08	0.05	0.00	0.01	0.000	0.01	0.00	0.000	0.00	31	0.00	0.00
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	2032	Haul	-	-	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	2033	Haul	-	-	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	2029	Haul	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	2029	Haul	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	2030	Haul	2	4	6.0	0.00	0.13	0.05	0.00	0.02	0.001	0.02	0.01	0.001	0.01	82	0.00	0.01
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	2031	Haul	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	2032	Haul	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Haul	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Haul	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Haul	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Haul	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	2028	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate Speeds; **Fleet Mix:100%** HHDT;
Fuel Type: Diesel
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

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*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 4

PRECAST HAUL TRUCKS (OFFSITE)

											Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	2031	Haul	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	2031	Haul	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	2032	Haul	2	4	6.0	0.00	0.01	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	4.7	0.00	0.00	4.9
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	2032	Haul	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	2030	Haul	-	-	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	2030	Haul	-	-	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	2031	Haul	2	4	2.0	0.00	0.01	0.01	0.00	0.00	0.000	0.00	0.00	0.000	0.00	3.4	0.00	0.00	3.5
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	2032	Haul	-	-	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	2033	Haul	-	-	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	2029	Haul	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	2029	Haul	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	2030	Haul	2	4	6.0	0.00	0.01	0.01	0.00	0.00	0.000	0.00	0.00	0.000	0.00	8.7	0.00	0.00	9.1
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	2031	Haul	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	2032	Haul	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Haul	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Haul	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Haul	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Haul	-	-	6.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	2028	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Haul	-	-	16.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate Speeds; **Fleet Mix:100%** HHDT;
Fuel Type: Diesel
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 4

VENDOR TRUCKS (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Onsite Trips	Onsite Trip Length (miles)	Running Emission Factor (g/mile)[1,2,4] ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	2028	Concrete	-	-	0.1	0.02	2.97	0.24	0.017	184.1	0.005	184.1	18.4	0.005	18.4	1781.8	0.00	0.28
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	2028	Concrete	2	2	0.1	0.02	2.97	0.24	0.017	184.1	0.005	184.1	18.4	0.005	18.4	1781.8	0.00	0.28
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	2029	Concrete	-	-	0.1	0.02	2.93	0.23	0.017	184.1	0.005	184.1	18.4	0.005	18.4	1757.8	0.00	0.28
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	2029	Concrete	26	26	0.1	0.02	2.93	0.23	0.017	184.1	0.005	184.1	18.4	0.005	18.4	1757.8	0.00	0.28
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	2029	Concrete	-	-	0.1	0.02	2.93	0.23	0.017	184.1	0.005	184.1	18.4	0.005	18.4	1757.8	0.00	0.28
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	2030	Concrete	-	-	0.1	0.02	2.89	0.23	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1735.3	0.00	0.27
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	2032	Concrete	-	-	0.1	0.02	2.84	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1693.1	0.00	0.27
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	2/13/2030	4/13/2032	7	791	20	2030	Concrete	18	18	0.1	0.02	2.89	0.23	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1735.3	0.00	0.27
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	4/14/2032	9/30/2033	7	535	20	2032	Concrete	20	20	0.1	0.02	2.84	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1693.1	0.00	0.27
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	10/1/2033	5/15/2034	7	227	20	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1673.7	0.00	0.26
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	2027	Concrete	-	-	0.1	0.02	3.01	0.24	0.017	184.1	0.005	184.1	18.4	0.005	18.4	1807.4	0.00	0.28
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	2027	Concrete	2	2	0.1	0.02	3.01	0.24	0.017	184.1	0.005	184.1	18.4	0.005	18.4	1807.4	0.00	0.28
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	2028	Concrete	-	-	0.1	0.02	2.97	0.24	0.017	184.1	0.005	184.1	18.4	0.005	18.4	1781.8	0.00	0.28
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	2028	Concrete	18	18	0.1	0.02	2.97	0.24	0.017	184.1	0.005	184.1	18.4	0.005	18.4	1781.8	0.00	0.28
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Concrete	-	-	0.1	0.02	2.97	0.24	0.017	184.1	0.005	184.1	18.4	0.005	18.4	1781.8	0.00	0.28
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	2029	Concrete	-	-	0.1	0.02	2.93	0.23	0.017	184.1	0.005	184.1	18.4	0.005	18.4	1757.8	0.00	0.28
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	2032	Concrete	-	-	0.1	0.02	2.84	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1693.1	0.00	0.27
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Fill	3/1/2029	12/31/2032	7	1402	20	2029	Concrete	20	20	0.1	0.02	2.93	0.23	0.017	184.1	0.005	184.1	18.4	0.005	18.4	1757.8	0.00	0.28
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Slabs, Walkways, Plenum	9/3/2032	8/31/2034	7	728	20	2032	Concrete	28	28	0.1	0.02	2.84	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1693.1	0.00	0.27
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	2034	Concrete	-	-	0.1	0.02	2.78	0.21	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1655.8	0.00	0.26
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	2029	Concrete	-	-	0.1	0.02	2.93	0.23	0.017	184.1	0.005	184.1	18.4	0.005	18.4	1757.8	0.00	0.28
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	2030	Concrete	10	10	0.1	0.02	2.89	0.23	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1735.3	0.00	0.27
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	2030	Concrete	2	2	0.1	0.02	2.89	0.23	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1735.3	0.00	0.27
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	2032	Concrete	-	-	0.1	0.02	2.84	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1693.1	0.00	0.27
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	11/20/2030	1/15/2031	6	49	20	2030	Concrete	-	-	0.1	0.02	2.89	0.23	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1735.3	0.00	0.27
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	2031	Concrete	-	-	0.1	0.02	2.86	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1713.6	0.00	0.27
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	1/5/2034	2/3/2034	6	26	20	2034	Concrete	-	-	0.1	0.02	2.78	0.21	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1655.8	0.00	0.26
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	2034	Concrete	-	-	0.1	0.02	2.78	0.21	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1655.8	0.00	0.26
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	2034	Concrete	-	-	0.1	0.02	2.78	0.21	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1655.8	0.00	0.26
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	8/18/2032	8/15/2033	6	311	20	2032	Concrete	-	-	0.1	0.02	2.84	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1693.1	0.00	0.27
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Concrete	-	-	0.1	0.02	2.89	0.23	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1735.3	0.00	0.27
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	2030	Concrete	-	-	0.1	0.02	2.89	0.23	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1735.3	0.00	0.27
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Concrete	-	-	0.1	0.02	3.01	0.24	0.017	184.1	0.005	184.1	18.4	0.005	18.4	1807.4	0.00	0.28
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Concrete	2	2	0.1	0.02	2.97	0.24	0.017	184.1	0.005	184.1	18.4	0.005	18.4	1781.8	0.00	0.28
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	2029	Concrete	-	-	0.1	0.02	2.93	0.23	0.017	184.1	0.005	184.1	18.4	0.005	18.4	1757.8	0.00	0.28
Metro E Line Stn_U-Alt4-TBM Pass Through-Maintenance	6/1/2030	7/31/2030	6	52	20	2030	Concrete	-	-	0.1	0.02	2.89	0.23	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1735.3	0.00	0.27
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	2030	Concrete	8	8	0.1	0.02	2.89	0.23	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1735.3	0.00	0.27
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	2031	Concrete	-	-	0.1	0.02	2.86	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1713.6	0.00	0.27
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	2034	Concrete	-	-	0.1	0.02	2.78	0.21	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1655.8	0.00	0.26
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	2028	Concrete	-	-	0.1	0.02	2.97	0.24	0.017	184.1	0.005	184.1	18.4	0.005	18.4	1781.8	0.00	0.28
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	2029	Concrete	2	2	0.1	0.02	2.93	0.23	0.017	184.1	0.005	184.1	18.4	0.005	18.4	1757.8	0.00	0.28
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	2029	Concrete	-	-	0.1	0.02	2.93	0.23	0.017	184.1	0.005	184.1	18.4	0.005	18.4	1757.8	0.00	0.28
Santa Monica Stn_U-Alt4-TBM Pass Through-Maintenance	1/1/2031	2/28/2031	6	51	20	2031	Concrete	-	-	0.1	0.02	2.86	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1713.6	0.00	0.27
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	2030	Concrete	8	8	0.1	0.02	2.89	0.23	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1735.3	0.00	0.27
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	2032	Concrete	-	-	0.1	0.02	2.84	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1693.1	0.00	0.27
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	2029	Concrete	-	-	0.1	0.02	2.93	0.23	0.017	184.1	0.005	184.1	18.4	0.005	18.4	1757.8	0.00	0.28
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	2029	Concrete	8	8	0.1	0.02	2.93	0.23	0.017	184.1	0.005	184.1	18.4	0.005	18.4	1757.8	0.00	0.28
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	2030	Concrete	-	-	0.1	0.02	2.89	0.23	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1735.3	0.00	0.27
D Line Wilshire-Westwood Stn_U-Alt4-TBM Pass Through-Maintenance	8/1/2031	9/30/2031	6	52	20	2031	Concrete	-	-	0.1	0.02	2.86	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1713.6	0.00	0.27
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	2031	Concrete	12	12	0.1	0.02	2.86	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1713.6	0.00	0.27
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	2032	Concrete	-	-	0.1	0.02	2.84	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1693.1	0.00	0.27
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	2028	Concrete	-	-	0.1	0.02	2.97	0.24	0.017	184.1	0.005	184.1	18.4	0.005	18.4	1781.8	0.00	0.28
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	2029	Concrete	6	6	0.1	0.02	2.93	0.23	0.017	184.1	0.005	184.1	18.4	0.005	18.4	1757.8	0.00	0.28
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	2029	Concrete	-	-	0.1	0.02	2.93	0.23	0.017	184.1	0.005	184.1	18.4	0.005	18.4	1757.8	0.00	0.28
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	2030	Concrete	8	8	0.1	0.02	2.89	0.23	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1735.3	0.00	0.27
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	2032	Concrete	8	8	0.1	0.02	2.84	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1693.1	0.00	0.27
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1673.7	0.00	0.26
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	2031	Concrete	-	-	0.1	0.02	2.86	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1713.6	0.00	0.27
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	2032	Concrete	2	2	0.1	0.02	2.84	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1693.1	0.00	0.27
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1673.7	0.00	0.26
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1673.7	0.00	0.26
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	2035	Concrete	-	-	0.1	0.02	2.76	0.21	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1639.3	0.00	0.26

Sepulveda Transit Corridor Project - ALTERNATIVE 4

VENDOR TRUCKS (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Onsite Trips	Onsite Trip Length (miles)	Non-Running Emission Factor (g/trip)[1,3] ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	2028	Concrete	-	-	0.1	0.19	4.54	2.98	0.004	-	0.001	0.001	-	0.001	0.001	475.0	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	2028	Concrete	2	2	0.1	0.19	4.54	2.98	0.004	-	0.001	0.001	-	0.001	0.001	475.0	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	2029	Concrete	-	-	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	2029	Concrete	26	26	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	2029	Concrete	-	-	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	2030	Concrete	-	-	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	2032	Concrete	-	-	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	2/13/2030	4/13/2032	7	791	20	2030	Concrete	18	18	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	4/14/2032	9/30/2033	7	535	20	2032	Concrete	20	20	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	10/1/2033	5/15/2034	7	227	20	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	2027	Concrete	-	-	0.1	0.19	4.64	2.98	0.005	-	0.001	0.001	-	0.001	0.001	482.8	0.01	0.08
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	2027	Concrete	2	2	0.1	0.19	4.64	2.98	0.005	-	0.001	0.001	-	0.001	0.001	482.8	0.01	0.08
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	2028	Concrete	-	-	0.1	0.19	4.54	2.98	0.004	-	0.001	0.001	-	0.001	0.001	475.0	0.01	0.07
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	2028	Concrete	18	18	0.1	0.19	4.54	2.98	0.004	-	0.001	0.001	-	0.001	0.001	475.0	0.01	0.07
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Concrete	-	-	0.1	0.19	4.54	2.98	0.004	-	0.001	0.001	-	0.001	0.001	475.0	0.01	0.07
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	2029	Concrete	-	-	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	2032	Concrete	-	-	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Fill	3/1/2029	12/31/2032	7	1402	20	2029	Concrete	20	20	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Slabs, Walkways, Plenum	9/3/2032	8/31/2034	7	728	20	2032	Concrete	28	28	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	2034	Concrete	-	-	0.1	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	2029	Concrete	-	-	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	2030	Concrete	10	10	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	2030	Concrete	2	2	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	2032	Concrete	-	-	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	11/20/2030	1/15/2031	6	49	20	2030	Concrete	-	-	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	2031	Concrete	-	-	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	1/5/2034	2/3/2034	6	26	20	2034	Concrete	-	-	0.1	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	2034	Concrete	-	-	0.1	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	2034	Concrete	-	-	0.1	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	8/18/2032	8/15/2033	6	311	20	2032	Concrete	-	-	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Concrete	-	-	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	2030	Concrete	-	-	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Concrete	-	-	0.1	0.19	4.64	2.98	0.005	-	0.001	0.001	-	0.001	0.001	482.8	0.01	0.08
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Concrete	2	2	0.1	0.19	4.54	2.98	0.004	-	0.001	0.001	-	0.001	0.001	475.0	0.01	0.07
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	2029	Concrete	-	-	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Metro E Line Stn_U-Alt4-TBM Pass Through-Maintenance	6/1/2030	7/31/2030	6	52	20	2030	Concrete	-	-	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	2030	Concrete	8	8	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	2031	Concrete	-	-	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	2034	Concrete	-	-	0.1	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	2028	Concrete	-	-	0.1	0.19	4.54	2.98	0.004	-	0.001	0.001	-	0.001	0.001	475.0	0.01	0.07
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	2029	Concrete	2	2	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	2029	Concrete	-	-	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Santa Monica Stn_U-Alt4-TBM Pass Through-Maintenance	1/1/2031	2/28/2031	6	51	20	2031	Concrete	-	-	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	2030	Concrete	8	8	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	2032	Concrete	-	-	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	2029	Concrete	-	-	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	2029	Concrete	8	8	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	2030	Concrete	-	-	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
D Line Wilshire-Westwood Stn_U-Alt4-TBM Pass Through-Maintenance	8/1/2031	9/30/2031	6	52	20	2031	Concrete	-	-	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	2031	Concrete	12	12	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	2032	Concrete	-	-	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	2028	Concrete	-	-	0.1	0.19	4.54	2.98	0.004	-	0.001	0.001	-	0.001	0.001	475.0	0.01	0.07
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	2029	Concrete	6	6	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	2029	Concrete	-	-	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	2030	Concrete	8	8	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	2032	Concrete	8	8	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	2031	Concrete	-	-	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	2032	Concrete	2	2	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	2035	Concrete	-	-	0.1	0.19	4.12	3.05	0.004	-	0.001	0.001	-	0.001	0.001	445.5	0.01	0.07

Sepulveda Transit Corridor Project - ALTERNATIVE 4

VENDOR TRUCKS (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Onsite Trips	Onsite Trip Length (miles)	Daily Emissions (lb/day)												
											ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	2028	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	2028	Concrete	2	2	0.1	0.00	0.02	0.01	0.00	0.08	0.000	0.08	0.01	0.000	0.01	3	0.00	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	2029	Concrete	26	26	0.1	0.01	0.27	0.17	0.00	1.05	0.000	1.06	0.11	0.000	0.11	37	0.00	0.01
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	2032	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	2/13/2030	4/13/2032	7	791	20	2030	Concrete	18	18	0.1	0.01	0.18	0.12	0.00	0.73	0.000	0.73	0.07	0.000	0.07	25	0.00	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	4/14/2032	9/30/2033	7	535	20	2032	Concrete	20	20	0.1	0.01	0.20	0.13	0.00	0.81	0.000	0.81	0.08	0.000	0.08	27	0.00	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	10/1/2033	5/15/2034	7	227	20	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	2027	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	2027	Concrete	2	2	0.1	0.00	0.02	0.01	0.00	0.08	0.000	0.08	0.01	0.000	0.01	3	0.00	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	2028	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	2028	Concrete	18	18	0.1	0.01	0.19	0.12	0.00	0.73	0.000	0.73	0.07	0.000	0.07	26	0.00	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	2032	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Fill	3/1/2029	12/31/2032	7	1402	20	2029	Concrete	20	20	0.1	0.01	0.21	0.13	0.00	0.81	0.000	0.81	0.08	0.000	0.08	28	0.00	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Slabs, Walkways, Plenum	9/3/2032	8/31/2034	7	728	20	2032	Concrete	28	28	0.1	0.01	0.28	0.19	0.00	1.14	0.000	1.14	0.11	0.000	0.11	38	0.00	0.01
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	2034	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	2030	Concrete	10	10	0.1	0.00	0.10	0.07	0.00	0.41	0.000	0.41	0.04	0.000	0.04	14	0.00	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	2030	Concrete	2	2	0.1	0.00	0.02	0.01	0.00	0.08	0.000	0.08	0.01	0.000	0.01	3	0.00	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	2032	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	11/20/2030	1/15/2031	6	49	20	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	1/5/2034	2/3/2034	6	26	20	2034	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	2034	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	2034	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	8/18/2032	8/15/2033	6	311	20	2032	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Concrete	2	2	0.1	0.00	0.02	0.01	0.00	0.08	0.000	0.08	0.01	0.000	0.01	3	0.00	0.00
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-TBM Pass Through-Maintenance	6/1/2030	7/31/2030	6	52	20	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	2030	Concrete	8	8	0.1	0.00	0.08	0.05	0.00	0.32	0.000	0.32	0.03	0.000	0.03	11	0.00	0.00
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	2034	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	2028	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	2029	Concrete	2	2	0.1	0.00	0.02	0.01	0.00	0.08	0.000	0.08	0.01	0.000	0.01	3	0.00	0.00
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-TBM Pass Through-Maintenance	1/1/2031	2/28/2031	6	51	20	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	2030	Concrete	8	8	0.1	0.00	0.08	0.05	0.00	0.32	0.000	0.32	0.03	0.000	0.03	11	0.00	0.00
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	2032	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	2029	Concrete	8	8	0.1	0.00	0.08	0.05	0.00	0.32	0.000	0.32	0.03	0.000	0.03	11	0.00	0.00
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-TBM Pass Through-Maintenance	8/1/2031	9/30/2031	6	52	20	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	2031	Concrete	12	12	0.1	0.01	0.12	0.08	0.00	0.49	0.000	0.49	0.05	0.000	0.05	17	0.00	0.00
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	2032	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	2028	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	2029	Concrete	6	6	0.1	0.00	0.06	0.04	0.00	0.24	0.000	0.24	0.02	0.000	0.02	9	0.00	0.00
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	2030	Concrete	8	8	0.1	0.00	0.08	0.05	0.00	0.32	0.000	0.32	0.03	0.000	0.03	11	0.00	0.00
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	2032	Concrete	8	8	0.1	0.00	0.08	0.05	0.00	0.32	0.000	0.32	0.03	0.000	0.03	11	0.00	0.00
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	2032	Concrete	2	2	0.1	0.00	0.02	0.01	0.00	0.08	0.000	0.08	0.01	0.000	0.01	3	0.00	0.00
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	2035	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 4

VENDOR TRUCKS (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Onsite Trips	Onsite Trip Length (miles)	Total Emissions (tons) ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	Total Emissions (metric tons) CO_2	CH_4	N_2O	CO_2e
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	2028	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	2028	Concrete	2	2	0.1	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	0.1	0.00	0.00	0.1
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	2029	Concrete	26	26	0.1	0.00	0.01	0.00	0.00	0.03	0.000	0.03	0.00	0.000	0.00	0.8	0.00	0.00	0.9
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	2032	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	2/13/2030	4/13/2032	7	791	20	2030	Concrete	18	18	0.1	0.00	0.07	0.05	0.00	0.29	0.000	0.29	0.03	0.000	0.03	9.1	0.00	0.00	9.5
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	4/14/2032	9/30/2033	7	535	20	2032	Concrete	20	20	0.1	0.00	0.05	0.04	0.00	0.22	0.000	0.22	0.02	0.000	0.02	6.7	0.00	0.00	7.0
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	10/1/2033	5/15/2034	7	227	20	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	2027	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	2027	Concrete	2	2	0.1	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	0.1	0.00	0.00	0.1
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	2028	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	2028	Concrete	18	18	0.1	0.00	0.01	0.00	0.00	0.02	0.000	0.02	0.00	0.000	0.00	0.6	0.00	0.00	0.7
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	2032	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Fill	3/1/2029	12/31/2032	7	1402	20	2029	Concrete	20	20	0.1	0.01	0.15	0.09	0.00	0.57	0.000	0.57	0.06	0.000	0.06	18.1	0.00	0.00	18.9
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Slabs, Walkways, Plenum	9/3/2032	8/31/2034	7	728	20	2032	Concrete	28	28	0.1	0.00	0.10	0.07	0.00	0.41	0.000	0.41	0.04	0.000	0.04	12.7	0.00	0.00	13.3
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	2034	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	2030	Concrete	10	10	0.1	0.00	0.01	0.01	0.00	0.05	0.000	0.05	0.00	0.000	0.00	1.5	0.00	0.00	1.6
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	2030	Concrete	2	2	0.1	0.00	0.01	0.01	0.00	0.04	0.000	0.04	0.00	0.000	0.00	1.1	0.00	0.00	1.1
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	2032	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	11/20/2030	1/15/2031	6	49	20	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	1/5/2034	2/3/2034	6	26	20	2034	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	2034	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	2034	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	8/18/2032	8/15/2033	6	311	20	2032	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Concrete	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.000	0.01	0.00	0.000	0.00	0.3	0.00	0.00	0.4
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-TBM Pass Through-Maintenance	6/1/2030	7/31/2030	6	52	20	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	2030	Concrete	8	8	0.1	0.00	0.03	0.02	0.00	0.10	0.000	0.10	0.01	0.000	0.01	3.2	0.00	0.00	3.3
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	2034	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	2028	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	2029	Concrete	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.000	0.01	0.00	0.000	0.00	0.3	0.00	0.00	0.4
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-TBM Pass Through-Maintenance	1/1/2031	2/28/2031	6	51	20	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	2030	Concrete	8	8	0.1	0.00	0.03	0.02	0.00	0.10	0.000	0.10	0.01	0.000	0.01	3.2	0.00	0.00	3.3
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	2032	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	2029	Concrete	8	8	0.1	0.00	0.01	0.01	0.00	0.04	0.000	0.04	0.00	0.000	0.00	1.4	0.00	0.00	1.4
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-TBM Pass Through-Maintenance	8/1/2031	9/30/2031	6	52	20	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	2031	Concrete	12	12	0.1	0.00	0.03	0.02	0.00	0.13	0.000	0.13	0.01	0.000	0.01	4.1	0.00	0.00	4.3
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	2032	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	2028	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	2029	Concrete	6	6	0.1	0.00	0.01	0.01	0.00	0.04	0.000	0.04	0.00	0.000	0.00	1.4	0.00	0.00	1.5
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	2030	Concrete	8	8	0.1	0.00	0.02	0.01	0.00	0.07	0.000	0.07	0.01	0.000	0.01	2.1	0.00	0.00	2.2
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	2032	Concrete	8	8	0.1	0.00	0.01	0.01	0.00	0.06	0.000	0.06	0.01	0.000	0.01	1.8	0.00	0.00	1.9
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	2032	Concrete	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.000	0.01	0.00	0.000	0.00	0.3	0.00	0.00	0.3
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	2035	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 4

VENDOR TRUCKS (ONSITE)

											Running Emission Factor (g/mile)[1,2,4]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Onsite Trips	Onsite Trip Length (miles)	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	2031	Concrete	-	-	0.1	0.02	2.86	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1713.6	0.00	0.27
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	2031	Concrete	2	2	0.1	0.02	2.86	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1713.6	0.00	0.27
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	2032	Concrete	-	-	0.1	0.02	2.84	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1693.1	0.00	0.27
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	2032	Concrete	-	-	0.1	0.02	2.84	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1693.1	0.00	0.27
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	2030	Concrete	-	-	0.1	0.02	2.89	0.23	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1735.3	0.00	0.27
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	2030	Concrete	4	4	0.1	0.02	2.89	0.23	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1735.3	0.00	0.27
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	2031	Concrete	-	-	0.1	0.02	2.86	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1713.6	0.00	0.27
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	2032	Concrete	-	-	0.1	0.02	2.84	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1693.1	0.00	0.27
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1673.7	0.00	0.26
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	2029	Concrete	-	-	0.1	0.02	2.93	0.23	0.017	184.1	0.005	184.1	18.4	0.005	18.4	1757.8	0.00	0.28
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	2029	Concrete	4	4	0.1	0.02	2.93	0.23	0.017	184.1	0.005	184.1	18.4	0.005	18.4	1757.8	0.00	0.28
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	2030	Concrete	-	-	0.1	0.02	2.89	0.23	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1735.3	0.00	0.27
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	2031	Concrete	-	-	0.1	0.02	2.86	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1713.6	0.00	0.27
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	2032	Concrete	-	-	0.1	0.02	2.84	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1693.1	0.00	0.27
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Concrete	-	-	0.1	0.02	2.78	0.21	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1655.8	0.00	0.26
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Concrete	2	2	0.1	0.02	2.78	0.21	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1655.8	0.00	0.26
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Concrete	-	-	0.1	0.02	2.78	0.21	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1655.8	0.00	0.26
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Concrete	-	-	0.1	0.02	2.78	0.21	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1655.8	0.00	0.26
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Concrete	-	-	0.1	0.02	2.84	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1693.1	0.00	0.27
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Concrete	-	-	0.1	0.02	2.84	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1693.1	0.00	0.27
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Concrete	-	-	0.1	0.02	2.84	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1693.1	0.00	0.27
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Concrete	2	2	0.1	0.02	2.84	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1693.1	0.00	0.27
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Concrete	-	-	0.1	0.02	2.78	0.21	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1655.8	0.00	0.26
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Concrete	-	-	0.1	0.02	2.78	0.21	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1655.8	0.00	0.26
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Concrete	-	-	0.1	0.02	2.84	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1693.1	0.00	0.27
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	2028	Concrete	-	-	0.1	0.02	2.97	0.24	0.017	184.1	0.005	184.1	18.4	0.005	18.4	1781.8	0.00	0.28
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Concrete	-	-	0.1	0.02	2.97	0.24	0.017	184.1	0.005	184.1	18.4	0.005	18.4	1781.8	0.00	0.28
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Concrete	-	-	0.1	0.02	2.97	0.24	0.017	184.1	0.005	184.1	18.4	0.005	18.4	1781.8	0.00	0.28

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** Heavy Duty-Mix (50% MHDT/50% HHDT); **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 4

VENDOR TRUCKS (ONSITE)

											Non-Running Emission Factor (g/trip)[1,3]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Onsite Trips	Onsite Trip Length (miles)	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	2031	Concrete	-	-	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	2031	Concrete	2	2	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	2032	Concrete	-	-	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	2032	Concrete	-	-	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	2030	Concrete	-	-	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	2030	Concrete	4	4	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	2031	Concrete	-	-	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	2032	Concrete	-	-	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	2029	Concrete	-	-	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	2029	Concrete	4	4	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	2030	Concrete	-	-	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	2031	Concrete	-	-	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	2032	Concrete	-	-	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Concrete	-	-	0.1	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Concrete	2	2	0.1	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Concrete	-	-	0.1	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Concrete	-	-	0.1	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Concrete	-	-	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Concrete	-	-	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Concrete	-	-	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Concrete	2	2	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Concrete	-	-	0.1	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Concrete	-	-	0.1	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Concrete	-	-	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	2028	Concrete	-	-	0.1	0.19	4.54	2.98	0.004	-	0.001	0.001	-	0.001	0.001	475.0	0.01	0.07
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Concrete	-	-	0.1	0.19	4.54	2.98	0.004	-	0.001	0.001	-	0.001	0.001	475.0	0.01	0.07
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Concrete	-	-	0.1	0.19	4.54	2.98	0.004	-	0.001	0.001	-	0.001	0.001	475.0	0.01	0.07

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** Heavy Duty-Mix (50% MHDT/50% HHDT); **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 4

VENDOR TRUCKS (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Onsite Trips	Onsite Trip Length (miles)	Daily Emissions (lb/day)												
											ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	2031	Concrete	2	2	0.1	0.00	0.02	0.01	0.00	0.08	0.000	0.08	0.01	0.000	0.01	3	0.00	0.00
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	2032	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	2032	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	2030	Concrete	4	4	0.1	0.00	0.04	0.03	0.00	0.16	0.000	0.16	0.02	0.000	0.02	6	0.00	0.00
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	2032	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	2029	Concrete	4	4	0.1	0.00	0.04	0.03	0.00	0.16	0.000	0.16	0.02	0.000	0.02	6	0.00	0.00
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	2032	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Concrete	2	2	0.1	0.00	0.02	0.01	0.00	0.08	0.000	0.08	0.01	0.000	0.01	3	0.00	0.00
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Concrete	2	2	0.1	0.00	0.02	0.01	0.00	0.08	0.000	0.08	0.01	0.000	0.01	3	0.00	0.00
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	2028	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** Heavy Duty-Mix (50% MHDT/50% HHDT); **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
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4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 4

VENDOR TRUCKS (ONSITE)

											Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Onsite Trips	Onsite Trip Length (miles)	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	2031	Concrete	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.000	0.01	0.00	0.000	0.00	0.3	0.00	0.00	0.3
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	2032	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	2032	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	2030	Concrete	4	4	0.1	0.00	0.00	0.00	0.00	0.01	0.000	0.01	0.00	0.000	0.00	0.3	0.00	0.00	0.3
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	2032	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	2029	Concrete	4	4	0.1	0.00	0.00	0.00	0.00	0.01	0.000	0.01	0.00	0.000	0.00	0.3	0.00	0.00	0.4
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	2032	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Concrete	2	2	0.1	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	0.1	0.00	0.00	0.1
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Concrete	2	2	0.1	0.00	0.01	0.01	0.00	0.03	0.000	0.03	0.00	0.000	0.00	1.0	0.00	0.00	1.0
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	2028	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

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Sepulveda Transit Corridor Project - ALTERNATIVE 4

VENDOR TRUCKS (OFFSITE)

											Running Emission Factor (g/mile)[1,2]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	2028	Concrete	-	-	10.2	0.01	0.91	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1267.9	0.00	0.20
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	2028	Concrete	2	4	10.2	0.01	0.91	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1267.9	0.00	0.20
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	2029	Concrete	-	-	10.2	0.01	0.89	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1254.2	0.00	0.20
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	2029	Concrete	26	52	10.2	0.01	0.89	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1254.2	0.00	0.20
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	2029	Concrete	-	-	10.2	0.01	0.89	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1254.2	0.00	0.20
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	2030	Concrete	-	-	10.2	0.01	0.87	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1240.9	0.00	0.20
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	2032	Concrete	-	-	10.2	0.01	0.84	0.04	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1215.1	0.00	0.19
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	2/13/2030	4/13/2032	7	791	20	2030	Concrete	18	36	10.2	0.01	0.87	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1240.9	0.00	0.20
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	4/14/2032	9/30/2033	7	535	20	2032	Concrete	20	40	10.2	0.01	0.84	0.04	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1215.1	0.00	0.19
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	10/1/2033	5/15/2034	7	227	20	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.011	0.4	0.015	0.4	0.1	0.015	0.1	1203.4	0.00	0.19
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	2027	Concrete	-	-	10.2	0.01	0.93	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1282.2	0.00	0.20
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	2027	Concrete	2	4	10.2	0.01	0.93	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1282.2	0.00	0.20
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	2028	Concrete	-	-	10.2	0.01	0.91	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1267.9	0.00	0.20
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	2028	Concrete	18	36	10.2	0.01	0.91	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1267.9	0.00	0.20
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Concrete	-	-	10.2	0.01	0.91	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1267.9	0.00	0.20
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	2029	Concrete	-	-	10.2	0.01	0.89	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1254.2	0.00	0.20
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	2032	Concrete	-	-	10.2	0.01	0.84	0.04	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1215.1	0.00	0.19
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Fill	3/1/2029	12/31/2032	7	1402	20	2029	Concrete	20	40	10.2	0.01	0.89	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1254.2	0.00	0.20
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Slabs, Walkways, Plenum	9/3/2032	8/31/2034	7	728	20	2032	Concrete	28	56	10.2	0.01	0.84	0.04	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1215.1	0.00	0.19
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	2034	Concrete	-	-	10.2	0.01	0.81	0.04	0.011	0.4	0.015	0.4	0.1	0.015	0.1	1192.3	0.00	0.19
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	2029	Concrete	-	-	10.2	0.01	0.89	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1254.2	0.00	0.20
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	2030	Concrete	10	20	10.2	0.01	0.87	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1240.9	0.00	0.20
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	2030	Concrete	2	4	10.2	0.01	0.87	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1240.9	0.00	0.20
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	2032	Concrete	-	-	10.2	0.01	0.84	0.04	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1215.1	0.00	0.19
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	11/20/2030	1/15/2031	6	49	20	2030	Concrete	-	-	10.2	0.01	0.87	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1240.9	0.00	0.20
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	2031	Concrete	-	-	10.2	0.01	0.85	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1227.8	0.00	0.19
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	1/5/2034	2/3/2034	6	26	20	2034	Concrete	-	-	10.2	0.01	0.81	0.04	0.011	0.4	0.015	0.4	0.1	0.015	0.1	1192.3	0.00	0.19
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	2034	Concrete	-	-	10.2	0.01	0.81	0.04	0.011	0.4	0.015	0.4	0.1	0.015	0.1	1192.3	0.00	0.19
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	2034	Concrete	-	-	10.2	0.01	0.81	0.04	0.011	0.4	0.015	0.4	0.1	0.015	0.1	1192.3	0.00	0.19
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	8/18/2032	8/15/2033	6	311	20	2032	Concrete	-	-	10.2	0.01	0.84	0.04	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1215.1	0.00	0.19
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Concrete	-	-	10.2	0.01	0.87	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1240.9	0.00	0.20
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	2030	Concrete	-	-	10.2	0.01	0.87	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1240.9	0.00	0.20
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Concrete	-	-	10.2	0.01	0.93	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1282.2	0.00	0.20
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Concrete	2	4	10.2	0.01	0.91	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1267.9	0.00	0.20
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	2029	Concrete	-	-	10.2	0.01	0.89	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1254.2	0.00	0.20
Metro E Line Stn_U-Alt4-TBM Pass Through-Maintenance	6/1/2030	7/31/2030	6	52	20	2030	Concrete	-	-	10.2	0.01	0.87	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1240.9	0.00	0.20
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	2030	Concrete	8	16	10.2	0.01	0.87	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1240.9	0.00	0.20
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	2031	Concrete	-	-	10.2	0.01	0.85	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1227.8	0.00	0.19
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	2034	Concrete	-	-	10.2	0.01	0.81	0.04	0.011	0.4	0.015	0.4	0.1	0.015	0.1	1192.3	0.00	0.19
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	2028	Concrete	-	-	10.2	0.01	0.91	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1267.9	0.00	0.20
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	2029	Concrete	2	4	10.2	0.01	0.89	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1254.2	0.00	0.20
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	2029	Concrete	-	-	10.2	0.01	0.89	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1254.2	0.00	0.20
Santa Monica Stn_U-Alt4-TBM Pass Through-Maintenance	1/1/2031	2/28/2031	6	51	20	2031	Concrete	-	-	10.2	0.01	0.85	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1227.8	0.00	0.19
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	2030	Concrete	8	16	10.2	0.01	0.87	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1240.9	0.00	0.20
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	2032	Concrete	-	-	10.2	0.01	0.84	0.04	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1215.1	0.00	0.19
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	2029	Concrete	-	-	10.2	0.01	0.89	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1254.2	0.00	0.20
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	2029	Concrete	8	16	10.2	0.01	0.89	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1254.2	0.00	0.20
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	2030	Concrete	-	-	10.2	0.01	0.87	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1240.9	0.00	0.20
D Line Wilshire-Westwood Stn_U-Alt4-TBM Pass Through-Maintenance	8/1/2031	9/30/2031	6	52	20	2031	Concrete	-	-	10.2	0.01	0.85	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1227.8	0.00	0.19
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	2031	Concrete	12	24	10.2	0.01	0.85	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1227.8	0.00	0.19
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	2032	Concrete	-	-	10.2	0.01	0.84	0.04	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1215.1	0.00	0.19
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	2028	Concrete	-	-	10.2	0.01	0.91	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1267.9	0.00	0.20
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	2029	Concrete	6	12	10.2	0.01	0.89	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1254.2	0.00	0.20
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	2029	Concrete	-	-	10.2	0.01	0.89	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1254.2	0.00	0.20
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	2030	Concrete	8	16	10.2	0.01	0.87	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1240.9	0.00	0.20
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	2032	Concrete	8	16	10.2	0.01	0.84	0.04	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1215.1	0.00	0.19
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.011	0.4	0.015	0.4	0.1	0.015	0.1	1203.4	0.00	0.19
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	2031	Concrete	-	-	10.2	0.01	0.85	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1227.8	0.00	0.19
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	2032	Concrete	2	4	10.2	0.01	0.84	0.04	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1215.1	0.00	0.19
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.011	0.4	0.015	0.4	0.1	0.015	0.1	1203.4	0.00	0.19
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.011	0.4	0.015	0.4	0.1	0.015	0.1	1203.4	0.00	0.19
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	2035	Concrete	-	-	10.2	0.01	0.79	0.04	0.011	0.4	0.015	0.4	0.1	0.014	0.1	1182.1	0.00	0.19

Sepulveda Transit Corridor Project - ALTERNATIVE 4

VENDOR TRUCKS (OFFSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Non-Running Emission Factor (g/trip)[1,3]												
											ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	2028	Concrete	-	-	10.2	0.19	4.54	2.98	0.004	-	0.001	0.001	-	0.001	0.001	475.0	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	2028	Concrete	2	4	10.2	0.19	4.54	2.98	0.004	-	0.001	0.001	-	0.001	0.001	475.0	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	2029	Concrete	-	-	10.2	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	2029	Concrete	26	52	10.2	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	2029	Concrete	-	-	10.2	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	2030	Concrete	-	-	10.2	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	2032	Concrete	-	-	10.2	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	2/13/2030	4/13/2032	7	791	20	2030	Concrete	18	36	10.2	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	4/14/2032	9/30/2033	7	535	20	2032	Concrete	20	40	10.2	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	10/1/2033	5/15/2034	7	227	20	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	2027	Concrete	-	-	10.2	0.19	4.64	2.98	0.005	-	0.001	0.001	-	0.001	0.001	482.8	0.01	0.08
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	2027	Concrete	2	4	10.2	0.19	4.64	2.98	0.005	-	0.001	0.001	-	0.001	0.001	482.8	0.01	0.08
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	2028	Concrete	-	-	10.2	0.19	4.54	2.98	0.004	-	0.001	0.001	-	0.001	0.001	475.0	0.01	0.07
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	2028	Concrete	18	36	10.2	0.19	4.54	2.98	0.004	-	0.001	0.001	-	0.001	0.001	475.0	0.01	0.07
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Concrete	-	-	10.2	0.19	4.54	2.98	0.004	-	0.001	0.001	-	0.001	0.001	475.0	0.01	0.07
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	2029	Concrete	-	-	10.2	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	2032	Concrete	-	-	10.2	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Fill	3/1/2029	12/31/2032	7	1402	20	2029	Concrete	20	40	10.2	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Slabs, Walkways, Plenum	9/3/2032	8/31/2034	7	728	20	2032	Concrete	28	56	10.2	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	2034	Concrete	-	-	10.2	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	2029	Concrete	-	-	10.2	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	2030	Concrete	10	20	10.2	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	2030	Concrete	2	4	10.2	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	2032	Concrete	-	-	10.2	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	11/20/2030	1/15/2031	6	49	20	2030	Concrete	-	-	10.2	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	2031	Concrete	-	-	10.2	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	1/5/2034	2/3/2034	6	26	20	2034	Concrete	-	-	10.2	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	2034	Concrete	-	-	10.2	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	2034	Concrete	-	-	10.2	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	8/18/2032	8/15/2033	6	311	20	2032	Concrete	-	-	10.2	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Concrete	-	-	10.2	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	2030	Concrete	-	-	10.2	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Concrete	-	-	10.2	0.19	4.64	2.98	0.005	-	0.001	0.001	-	0.001	0.001	482.8	0.01	0.08
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Concrete	2	4	10.2	0.19	4.54	2.98	0.004	-	0.001	0.001	-	0.001	0.001	475.0	0.01	0.07
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	2029	Concrete	-	-	10.2	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Metro E Line Stn_U-Alt4-TBM Pass Through-Maintenance	6/1/2030	7/31/2030	6	52	20	2030	Concrete	-	-	10.2	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	2030	Concrete	8	16	10.2	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	2031	Concrete	-	-	10.2	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	2034	Concrete	-	-	10.2	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	2028	Concrete	-	-	10.2	0.19	4.54	2.98	0.004	-	0.001	0.001	-	0.001	0.001	475.0	0.01	0.07
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	2029	Concrete	2	4	10.2	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	2029	Concrete	-	-	10.2	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Santa Monica Stn_U-Alt4-TBM Pass Through-Maintenance	1/1/2031	2/28/2031	6	51	20	2031	Concrete	-	-	10.2	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	2030	Concrete	8	16	10.2	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	2032	Concrete	-	-	10.2	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	2029	Concrete	-	-	10.2	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	2029	Concrete	8	16	10.2	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	2030	Concrete	-	-	10.2	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
D Line Wilshire-Westwood Stn_U-Alt4-TBM Pass Through-Maintenance	8/1/2031	9/30/2031	6	52	20	2031	Concrete	-	-	10.2	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	2031	Concrete	12	24	10.2	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	2032	Concrete	-	-	10.2	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	2028	Concrete	-	-	10.2	0.19	4.54	2.98	0.004	-	0.001	0.001	-	0.001	0.001	475.0	0.01	0.07
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	2029	Concrete	6	12	10.2	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	2029	Concrete	-	-	10.2	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	2030	Concrete	8	16	10.2	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	2032	Concrete	8	16	10.2	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	2031	Concrete	-	-	10.2	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	2032	Concrete	2	4	10.2	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	2035	Concrete	-	-	10.2	0.19	4.12	3.05	0.004	-	0.001	0.001	-	0.001	0.001	445.5	0.01	0.07

Sepulveda Transit Corridor Project - ALTERNATIVE 4

VENDOR TRUCKS (OFFSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Daily Emissions (lb/day)												
											ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	2028	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	2028	Concrete	2	4	10.2	0.00	0.12	0.03	0.00	0.03	0.001	0.04	0.01	0.001	0.01	118	0.00	0.02
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	2029	Concrete	26	52	10.2	0.03	1.54	0.40	0.01	0.45	0.018	0.47	0.12	0.017	0.14	1520	0.00	0.24
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	2030	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	2032	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	2/13/2030	4/13/2032	7	791	20	2030	Concrete	18	36	10.2	0.02	1.05	0.27	0.01	0.31	0.013	0.32	0.08	0.012	0.09	1041	0.00	0.16
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	4/14/2032	9/30/2033	7	535	20	2032	Concrete	20	40	10.2	0.02	1.13	0.31	0.01	0.35	0.014	0.36	0.09	0.013	0.11	1133	0.00	0.18
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	10/1/2033	5/15/2034	7	227	20	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	2027	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	2027	Concrete	2	4	10.2	0.00	0.12	0.03	0.00	0.03	0.001	0.04	0.01	0.001	0.01	120	0.00	0.02
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	2028	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	2028	Concrete	18	36	10.2	0.02	1.10	0.28	0.01	0.31	0.013	0.32	0.08	0.012	0.09	1064	0.00	0.17
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	2032	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Fill	3/1/2029	12/31/2032	7	1402	20	2029	Concrete	20	40	10.2	0.02	1.19	0.31	0.01	0.35	0.014	0.36	0.09	0.013	0.11	1169	0.00	0.18
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Slabs, Walkways, Plenum	9/3/2032	8/31/2034	7	728	20	2032	Concrete	28	56	10.2	0.03	1.58	0.43	0.02	0.49	0.019	0.50	0.13	0.019	0.15	1586	0.00	0.25
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	2034	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	2030	Concrete	10	20	10.2	0.01	0.58	0.15	0.01	0.17	0.007	0.18	0.05	0.007	0.05	578	0.00	0.09
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	2030	Concrete	2	4	10.2	0.00	0.12	0.03	0.00	0.03	0.001	0.04	0.01	0.001	0.01	116	0.00	0.02
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	2032	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	11/20/2030	1/15/2031	6	49	20	2030	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	2031	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	1/5/2034	2/3/2034	6	26	20	2034	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	2034	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	2034	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	8/18/2032	8/15/2033	6	311	20	2032	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	2030	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Concrete	2	4	10.2	0.00	0.12	0.03	0.00	0.03	0.001	0.04	0.01	0.001	0.01	118	0.00	0.02
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-TBM Pass Through-Maintenance	6/1/2030	7/31/2030	6	52	20	2030	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	2030	Concrete	8	16	10.2	0.01	0.47	0.12	0.00	0.14	0.006	0.14	0.04	0.005	0.04	463	0.00	0.07
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	2031	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	2034	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	2028	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	2029	Concrete	2	4	10.2	0.00	0.12	0.03	0.00	0.03	0.001	0.04	0.01	0.001	0.01	117	0.00	0.02
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-TBM Pass Through-Maintenance	1/1/2031	2/28/2031	6	51	20	2031	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	2030	Concrete	8	16	10.2	0.01	0.47	0.12	0.00	0.14	0.006	0.14	0.04	0.005	0.04	463	0.00	0.07
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	2032	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	2029	Concrete	8	16	10.2	0.01	0.48	0.12	0.00	0.14	0.006	0.14	0.04	0.005	0.04	468	0.00	0.07
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	2030	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-TBM Pass Through-Maintenance	8/1/2031	9/30/2031	6	52	20	2031	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	2031	Concrete	12	24	10.2	0.01	0.69	0.18	0.01	0.21	0.008	0.22	0.06	0.008	0.06	687	0.00	0.11
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	2032	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	2028	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	2029	Concrete	6	12	10.2	0.01	0.36	0.09	0.00	0.10	0.004	0.11	0.03	0.004	0.03	351	0.00	0.06
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	2030	Concrete	8	16	10.2	0.01	0.47	0.12	0.00	0.14	0.006	0.14	0.04	0.005	0.04	463	0.00	0.07
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	2032	Concrete	8	16	10.2	0.01	0.45	0.12	0.00	0.14	0.006	0.14	0.04	0.005	0.04	453	0.00	0.07
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	2031	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	2032	Concrete	2	4	10.2	0.00	0.11	0.03	0.00	0.03	0.001	0.04	0.01	0.001	0.01	113	0.00	0.02
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	2035	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 4

VENDOR TRUCKS (OFFSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Total Emissions (tons)										Total Emissions (metric tons)			
											ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	2028	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	2028	Concrete	2	4	10.2	0.00	0.01	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	5.6	0.00	0.00	5.8
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	2029	Concrete	26	52	10.2	0.00	0.04	0.01	0.00	0.01	0.000	0.01	0.00	0.000	0.00	33.8	0.00	0.01	35.4
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	2030	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	2032	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	2/13/2030	4/13/2032	7	791	20	2030	Concrete	18	36	10.2	0.01	0.41	0.11	0.00	0.12	0.005	0.13	0.03	0.005	0.04	373.6	0.00	0.06	391.1
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	4/14/2032	9/30/2033	7	535	20	2032	Concrete	20	40	10.2	0.01	0.30	0.08	0.00	0.09	0.004	0.10	0.02	0.004	0.03	274.9	0.00	0.04	287.9
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	10/1/2033	5/15/2034	7	227	20	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	2027	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	2027	Concrete	2	4	10.2	0.00	0.01	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	5.7	0.00	0.00	6.0
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	2028	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	2028	Concrete	18	36	10.2	0.00	0.03	0.01	0.00	0.01	0.000	0.01	0.00	0.000	0.00	25.6	0.00	0.00	26.8
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	2032	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Fill	3/1/2029	12/31/2032	7	1402	20	2029	Concrete	20	40	10.2	0.02	0.83	0.21	0.01	0.24	0.010	0.25	0.06	0.009	0.07	743.7	0.00	0.12	778.6
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Slabs, Walkways, Plenum	9/3/2032	8/31/2034	7	728	20	2032	Concrete	28	56	10.2	0.01	0.57	0.16	0.01	0.18	0.007	0.18	0.05	0.007	0.05	523.8	0.00	0.08	548.4
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	2034	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	2030	Concrete	10	20	10.2	0.00	0.07	0.02	0.00	0.02	0.001	0.02	0.01	0.001	0.01	62.2	0.00	0.01	65.1
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	2030	Concrete	2	4	10.2	0.00	0.05	0.01	0.00	0.01	0.001	0.02	0.00	0.001	0.00	45.3	0.00	0.01	47.4
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	2032	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	11/20/2030	1/15/2031	6	49	20	2030	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	2031	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	1/5/2034	2/3/2034	6	26	20	2034	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	2034	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	2034	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	8/18/2032	8/15/2033	6	311	20	2032	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	2030	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Concrete	2	4	10.2	0.00	0.02	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	14.0	0.00	0.00	14.7
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-TBM Pass Through-Maintenance	6/1/2030	7/31/2030	6	52	20	2030	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	2030	Concrete	8	16	10.2	0.00	0.15	0.04	0.00	0.04	0.002	0.05	0.01	0.002	0.01	131.2	0.00	0.02	137.4
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	2031	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	2034	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	2028	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	2029	Concrete	2	4	10.2	0.00	0.02	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	14.1	0.00	0.00	14.7
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-TBM Pass Through-Maintenance	1/1/2031	2/28/2031	6	51	20	2031	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	2030	Concrete	8	16	10.2	0.00	0.14	0.04	0.00	0.04	0.002	0.04	0.01	0.002	0.01	130.1	0.00	0.02	136.3
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	2032	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	2029	Concrete	8	16	10.2	0.00	0.06	0.02	0.00	0.02	0.001	0.02	0.00	0.001	0.01	55.8	0.00	0.01	58.4
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	2030	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-TBM Pass Through-Maintenance	8/1/2031	9/30/2031	6	52	20	2031	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	2031	Concrete	12	24	10.2	0.00	0.19	0.05	0.00	0.06	0.002	0.06	0.02	0.002	0.02	169.5	0.00	0.03	177.4
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	2032	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	2028	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	2029	Concrete	6	12	10.2	0.00	0.07	0.02	0.00	0.02	0.001	0.02	0.01	0.001	0.01	58.4	0.00	0.01	61.1
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	2030	Concrete	8	16	10.2	0.00	0.10	0.03	0.00	0.03	0.001	0.03	0.01	0.001	0.01	88.0	0.00	0.01	92.1
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	2032	Concrete	8	16	10.2	0.00	0.08	0.02	0.00	0.02	0.001	0.03	0.01	0.001	0.01	74.0	0.00	0.01	77.5
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	2031	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	2032	Concrete	2	4	10.2	0.00	0.01	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	13.5	0.00	0.00	14.2
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	2035	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 4

VENDOR TRUCKS (OFFSITE)

										Running Emission Factor (g/mile)[1,2]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	2031	Concrete	-	-	10.2	0.01	0.85	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1227.8	0.00	0.19
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	2031	Concrete	2	4	10.2	0.01	0.85	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1227.8	0.00	0.19
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	2032	Concrete	-	-	10.2	0.01	0.84	0.04	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1215.1	0.00	0.19
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	2032	Concrete	-	-	10.2	0.01	0.84	0.04	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1215.1	0.00	0.19
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	2030	Concrete	-	-	10.2	0.01	0.87	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1240.9	0.00	0.20
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	2030	Concrete	4	8	10.2	0.01	0.87	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1240.9	0.00	0.20
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	2031	Concrete	-	-	10.2	0.01	0.85	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1227.8	0.00	0.19
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	2032	Concrete	-	-	10.2	0.01	0.84	0.04	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1215.1	0.00	0.19
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	2033	Concrete	-	-	10.2	0.01	0.82	0.04	0.011	0.4	0.015	0.4	0.1	0.015	0.1	1203.4	0.00	0.19
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	2029	Concrete	-	-	10.2	0.01	0.89	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1254.2	0.00	0.20
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	2029	Concrete	4	8	10.2	0.01	0.89	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1254.2	0.00	0.20
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	2030	Concrete	-	-	10.2	0.01	0.87	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1240.9	0.00	0.20
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	2031	Concrete	-	-	10.2	0.01	0.85	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1227.8	0.00	0.19
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	2032	Concrete	-	-	10.2	0.01	0.84	0.04	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1215.1	0.00	0.19
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Concrete	-	-	10.2	0.01	0.81	0.04	0.011	0.4	0.015	0.4	0.1	0.015	0.1	1192.3	0.00	0.19
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Concrete	2	4	10.2	0.01	0.81	0.04	0.011	0.4	0.015	0.4	0.1	0.015	0.1	1192.3	0.00	0.19
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Concrete	-	-	10.2	0.01	0.81	0.04	0.011	0.4	0.015	0.4	0.1	0.015	0.1	1192.3	0.00	0.19
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Concrete	-	-	10.2	0.01	0.81	0.04	0.011	0.4	0.015	0.4	0.1	0.015	0.1	1192.3	0.00	0.19
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Concrete	-	-	10.2	0.01	0.84	0.04	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1215.1	0.00	0.19
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Concrete	-	-	10.2	0.01	0.84	0.04	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1215.1	0.00	0.19
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Concrete	-	-	10.2	0.01	0.84	0.04	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1215.1	0.00	0.19
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Concrete	2	4	10.2	0.01	0.84	0.04	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1215.1	0.00	0.19
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Concrete	-	-	10.2	0.01	0.81	0.04	0.011	0.4	0.015	0.4	0.1	0.015	0.1	1192.3	0.00	0.19
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Concrete	-	-	10.2	0.01	0.81	0.04	0.011	0.4	0.015	0.4	0.1	0.015	0.1	1192.3	0.00	0.19
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Concrete	-	-	10.2	0.01	0.84	0.04	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1215.1	0.00	0.19
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	2028	Concrete	-	-	10.2	0.01	0.91	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1267.9	0.00	0.20
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Concrete	-	-	10.2	0.01	0.91	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1267.9	0.00	0.20
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Concrete	-	-	10.2	0.01	0.91	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1267.9	0.00	0.20

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate; **Fleet Mix:** Heavy Duty-Mix (50% MHDT/50% HHDT); **Fuel Type:** Diesel

2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.

3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

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*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 4

VENDOR TRUCKS (OFFSITE)

										Non-Running Emission Factor (g/trip)[1,3]												
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Hours per Workday**	**EF Year**	**Trip Type**	**Round Trips per Day**	**Total One-Way Trips per Day**	**One-Way Trip Length (mi)**	**ROG**	**NO_x**	**CO**	**SO_x**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**	**CO_2**	**CH_4**	**N_2O**
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	2031	Concrete	-	-	10.2	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	2031	Concrete	2	4	10.2	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	2032	Concrete	-	-	10.2	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	2032	Concrete	-	-	10.2	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	2030	Concrete	-	-	10.2	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	2030	Concrete	4	8	10.2	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	2031	Concrete	-	-	10.2	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	2032	Concrete	-	-	10.2	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	2033	Concrete	-	-	10.2	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	2029	Concrete	-	-	10.2	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	2029	Concrete	4	8	10.2	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	2030	Concrete	-	-	10.2	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	2031	Concrete	-	-	10.2	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	2032	Concrete	-	-	10.2	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Concrete	-	-	10.2	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Concrete	2	4	10.2	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Concrete	-	-	10.2	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Concrete	-	-	10.2	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Concrete	-	-	10.2	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Concrete	-	-	10.2	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Concrete	-	-	10.2	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Concrete	2	4	10.2	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Concrete	-	-	10.2	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Concrete	-	-	10.2	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Concrete	-	-	10.2	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	2028	Concrete	-	-	10.2	0.19	4.54	2.98	0.004	-	0.001	0.001	-	0.001	0.001	475.0	0.01	0.07
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Concrete	-	-	10.2	0.19	4.54	2.98	0.004	-	0.001	0.001	-	0.001	0.001	475.0	0.01	0.07
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Concrete	-	-	10.2	0.19	4.54	2.98	0.004	-	0.001	0.001	-	0.001	0.001	475.0	0.01	0.07

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate; **Fleet Mix:** Heavy Duty-Mix (50% MHDT/50% HHDT); **Fuel Type:** Diesel

2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.

3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

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*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 4

VENDOR TRUCKS (OFFSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Daily Emissions (lb/day)												
											ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	2031	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	2031	Concrete	2	4	10.2	0.00	0.11	0.03	0.00	0.03	0.001	0.04	0.01	0.001	0.01	114	0.00	0.02
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	2032	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	2032	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	2030	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	2030	Concrete	4	8	10.2	0.00	0.23	0.06	0.00	0.07	0.003	0.07	0.02	0.003	0.02	231	0.00	0.04
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	2031	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	2032	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	2029	Concrete	4	8	10.2	0.00	0.24	0.06	0.00	0.07	0.003	0.07	0.02	0.003	0.02	234	0.00	0.04
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	2030	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	2031	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	2032	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Concrete	2	4	10.2	0.00	0.11	0.03	0.00	0.03	0.001	0.04	0.01	0.001	0.01	111	0.00	0.02
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Concrete	2	4	10.2	0.00	0.11	0.03	0.00	0.03	0.001	0.04	0.01	0.001	0.01	113	0.00	0.02
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	2028	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate; **Fleet Mix:** Heavy Duty-Mix (50% MHDT/50% HHDT); **Fuel Type:** Diesel
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 4

VENDOR TRUCKS (OFFSITE)

										Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	2031	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	2031	Concrete	2	4	10.2	0.00	0.01	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	11.0	0.00	0.00	11.5
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	2032	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	2032	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	2030	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	2030	Concrete	4	8	10.2	0.00	0.02	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	13.7	0.00	0.00	14.4
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	2031	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	2032	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	2033	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	2029	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	2029	Concrete	4	8	10.2	0.00	0.02	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	14.1	0.00	0.00	14.8
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	2030	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	2031	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	2032	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Concrete	2	4	10.2	0.00	0.01	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	5.2	0.00	0.00	5.5
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Concrete	2	4	10.2	0.00	0.04	0.01	0.00	0.01	0.001	0.01	0.00	0.001	0.00	40.2	0.00	0.01	42.1
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	2028	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Concrete	-	-	10.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate; **Fleet Mix:** Heavy Duty-Mix (50% MHDT/50% HHDT); **Fuel Type:** Diesel
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 4

WATER TRUCKS (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	Running Emission Factor (g/mile)[1,2,4] ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	2028	Water	3	3	0.1	0.02	2.97	0.24	0.017	184.1	0.005	184.1	18.4	0.005	18.4	1781.8	0.00	0.28
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	2028	Water	3	3	0.1	0.02	2.97	0.24	0.017	184.1	0.005	184.1	18.4	0.005	18.4	1781.8	0.00	0.28
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.017	184.1	0.005	184.1	18.4	0.005	18.4	1757.8	0.00	0.28
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.017	184.1	0.005	184.1	18.4	0.005	18.4	1757.8	0.00	0.28
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	2029	Water	-	-	0.1	0.02	2.93	0.23	0.017	184.1	0.005	184.1	18.4	0.005	18.4	1757.8	0.00	0.28
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	2030	Water	-	-	0.1	0.02	2.89	0.23	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1735.3	0.00	0.27
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	2032	Water	-	-	0.1	0.02	2.84	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1693.1	0.00	0.27
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	2/13/2030	4/13/2032	7	791	20	2030	Water	-	-	0.1	0.02	2.89	0.23	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1735.3	0.00	0.27
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	4/14/2032	9/30/2033	7	535	20	2032	Water	-	-	0.1	0.02	2.84	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1693.1	0.00	0.27
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	10/1/2033	5/15/2034	7	227	20	2033	Water	-	-	0.1	0.02	2.81	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1673.7	0.00	0.26
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	2027	Water	3	3	0.1	0.02	3.01	0.24	0.017	184.1	0.005	184.1	18.4	0.005	18.4	1807.4	0.00	0.28
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	2027	Water	3	3	0.1	0.02	3.01	0.24	0.017	184.1	0.005	184.1	18.4	0.005	18.4	1807.4	0.00	0.28
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	2028	Water	3	3	0.1	0.02	2.97	0.24	0.017	184.1	0.005	184.1	18.4	0.005	18.4	1781.8	0.00	0.28
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	2028	Water	3	3	0.1	0.02	2.97	0.24	0.017	184.1	0.005	184.1	18.4	0.005	18.4	1781.8	0.00	0.28
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Water	-	-	0.1	0.02	2.97	0.24	0.017	184.1	0.005	184.1	18.4	0.005	18.4	1781.8	0.00	0.28
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	2029	Water	-	-	0.1	0.02	2.93	0.23	0.017	184.1	0.005	184.1	18.4	0.005	18.4	1757.8	0.00	0.28
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	2032	Water	-	-	0.1	0.02	2.84	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1693.1	0.00	0.27
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Fill	3/1/2029	12/31/2032	7	1402	20	2029	Water	-	-	0.1	0.02	2.93	0.23	0.017	184.1	0.005	184.1	18.4	0.005	18.4	1757.8	0.00	0.28
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Slabs, Walkways, Plenum	9/3/2032	8/31/2034	7	728	20	2032	Water	-	-	0.1	0.02	2.84	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1693.1	0.00	0.27
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	2034	Water	-	-	0.1	0.02	2.78	0.21	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1655.8	0.00	0.26
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	2029	Water	3	3	0.1	0.02	2.93	0.23	0.017	184.1	0.005	184.1	18.4	0.005	18.4	1757.8	0.00	0.28
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	2030	Water	3	3	0.1	0.02	2.89	0.23	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1735.3	0.00	0.27
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	2030	Water	3	3	0.1	0.02	2.89	0.23	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1735.3	0.00	0.27
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	2032	Water	3	3	0.1	0.02	2.84	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1693.1	0.00	0.27
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	11/20/2030	1/15/2031	6	49	20	2030	Water	3	3	0.1	0.02	2.89	0.23	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1735.3	0.00	0.27
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	2031	Water	3	3	0.1	0.02	2.86	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1713.6	0.00	0.27
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	1/5/2034	2/3/2034	6	26	20	2034	Water	3	3	0.1	0.02	2.78	0.21	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1655.8	0.00	0.26
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	2034	Water	3	3	0.1	0.02	2.78	0.21	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1655.8	0.00	0.26
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	2034	Water	3	3	0.1	0.02	2.78	0.21	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1655.8	0.00	0.26
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	8/18/2032	8/15/2033	6	311	20	2032	Water	3	3	0.1	0.02	2.84	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1693.1	0.00	0.27
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Water	3	3	0.1	0.02	2.89	0.23	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1735.3	0.00	0.27
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	2030	Water	3	3	0.1	0.02	2.89	0.23	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1735.3	0.00	0.27
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Water	3	3	0.1	0.02	3.01	0.24	0.017	184.1	0.005	184.1	18.4	0.005	18.4	1807.4	0.00	0.28
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Water	3	3	0.1	0.02	2.97	0.24	0.017	184.1	0.005	184.1	18.4	0.005	18.4	1781.8	0.00	0.28
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	2029	Water	3	3	0.1	0.02	2.93	0.23	0.017	184.1	0.005	184.1	18.4	0.005	18.4	1757.8	0.00	0.28
Metro E Line Stn_U-Alt4-TBM Pass Through-Maintenance	6/1/2030	7/31/2030	6	52	20	2030	Water	3	3	0.1	0.02	2.89	0.23	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1735.3	0.00	0.27
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	2030	Water	-	-	0.1	0.02	2.89	0.23	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1735.3	0.00	0.27
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	2031	Water	-	-	0.1	0.02	2.86	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1713.6	0.00	0.27
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	2034	Water	-	-	0.1	0.02	2.78	0.21	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1655.8	0.00	0.26
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	2028	Water	3	3	0.1	0.02	2.97	0.24	0.017	184.1	0.005	184.1	18.4	0.005	18.4	1781.8	0.00	0.28
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	2029	Water	3	3	0.1	0.02	2.93	0.23	0.017	184.1	0.005	184.1	18.4	0.005	18.4	1757.8	0.00	0.28
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	2029	Water	3	3	0.1	0.02	2.93	0.23	0.017	184.1	0.005	184.1	18.4	0.005	18.4	1757.8	0.00	0.28
Santa Monica Stn_U-Alt4-TBM Pass Through-Maintenance	1/1/2031	2/28/2031	6	51	20	2031	Water	3	3	0.1	0.02	2.86	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1713.6	0.00	0.27
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	2030	Water	3	3	0.1	0.02	2.89	0.23	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1735.3	0.00	0.27
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	2032	Water	3	3	0.1	0.02	2.84	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1693.1	0.00	0.27
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	2029	Water	3	3	0.1	0.02	2.93	0.23	0.017	184.1	0.005	184.1	18.4	0.005	18.4	1757.8	0.00	0.28
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	2029	Water	3	3	0.1	0.02	2.93	0.23	0.017	184.1	0.005	184.1	18.4	0.005	18.4	1757.8	0.00	0.28
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	2030	Water	3	3	0.1	0.02	2.89	0.23	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1735.3	0.00	0.27
D Line Wilshire-Westwood Stn_U-Alt4-TBM Pass Through-Maintenance	8/1/2031	9/30/2031	6	52	20	2031	Water	3	3	0.1	0.02	2.86	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1713.6	0.00	0.27
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	2031	Water	3	3	0.1	0.02	2.86	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1713.6	0.00	0.27
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	2032	Water	3	3	0.1	0.02	2.84	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1693.1	0.00	0.27
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	2028	Water	3	3	0.1	0.02	2.97	0.24	0.017	184.1	0.005	184.1	18.4	0.005	18.4	1781.8	0.00	0.28
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	2029	Water	3	3	0.1	0.02	2.93	0.23	0.017	184.1	0.005	184.1	18.4	0.005	18.4	1757.8	0.00	0.28
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	2029	Water	3	3	0.1	0.02	2.93	0.23	0.017	184.1	0.005	184.1	18.4	0.005	18.4	1757.8	0.00	0.28
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	2030	Water	-	-	0.1	0.02	2.89	0.23	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1735.3	0.00	0.27
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	2032	Water	-	-	0.1	0.02	2.84	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1693.1	0.00	0.27
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	2033	Water	-	-	0.1	0.02	2.81	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1673.7	0.00	0.26
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	2031	Water	3	3	0.1	0.02	2.86	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1713.6	0.00	0.27
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	2032	Water	3	3	0.1	0.02	2.84	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1693.1	0.00	0.27
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	2033	Water	3	3	0.1	0.02	2.81	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1673.7	0.00	0.26
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	2033	Water	3	3	0.1	0.02	2.81	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1673.7	0.00	0.26
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	2035	Water	3	3	0.1	0.02	2.76	0.21	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1639.3	0.00	0.26
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	2031	Water	3	3	0.1	0.02	2.86	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1713.6	0.00	0.27
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	2031	Water	3	3	0.1	0.02	2.86	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1713.6	0.00	0.27
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	2032	Water	3	3	0.1	0.02	2.84	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1693.1	0.00	0.27
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	2032	Water	3	3	0.1	0.02	2.84	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1693.1	0.00	0.27

Sepulveda Transit Corridor Project - ALTERNATIVE 4

WATER TRUCKS (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	Non-Running Emission Factor (g/trip)[1,3] ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	2028	Water	3	3	0.1	0.19	4.54	2.98	0.004	-	0.001	0.001	-	0.001	0.001	475.0	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	2028	Water	3	3	0.1	0.19	4.54	2.98	0.004	-	0.001	0.001	-	0.001	0.001	475.0	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	2029	Water	-	-	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	2030	Water	-	-	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	2032	Water	-	-	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	2/13/2030	4/13/2032	7	791	20	2030	Water	-	-	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	4/14/2032	9/30/2033	7	535	20	2032	Water	-	-	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	10/1/2033	5/15/2034	7	227	20	2033	Water	-	-	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	2027	Water	3	3	0.1	0.19	4.64	2.98	0.005	-	0.001	0.001	-	0.001	0.001	482.8	0.01	0.08
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	2027	Water	3	3	0.1	0.19	4.64	2.98	0.005	-	0.001	0.001	-	0.001	0.001	482.8	0.01	0.08
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	2028	Water	3	3	0.1	0.19	4.54	2.98	0.004	-	0.001	0.001	-	0.001	0.001	475.0	0.01	0.07
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	2028	Water	3	3	0.1	0.19	4.54	2.98	0.004	-	0.001	0.001	-	0.001	0.001	475.0	0.01	0.07
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Water	-	-	0.1	0.19	4.54	2.98	0.004	-	0.001	0.001	-	0.001	0.001	475.0	0.01	0.07
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	2029	Water	-	-	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	2032	Water	-	-	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Fill	3/1/2029	12/31/2032	7	1402	20	2029	Water	-	-	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Slabs, Walkways, Plenum	9/3/2032	8/31/2034	7	728	20	2032	Water	-	-	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	2034	Water	-	-	0.1	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	2030	Water	3	3	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	2030	Water	3	3	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	2032	Water	3	3	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	11/20/2030	1/15/2031	6	49	20	2030	Water	3	3	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	2031	Water	3	3	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	1/5/2034	2/3/2034	6	26	20	2034	Water	3	3	0.1	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	2034	Water	3	3	0.1	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	2034	Water	3	3	0.1	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	8/18/2032	8/15/2033	6	311	20	2032	Water	3	3	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Water	3	3	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	2030	Water	3	3	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Water	3	3	0.1	0.19	4.64	2.98	0.005	-	0.001	0.001	-	0.001	0.001	482.8	0.01	0.08
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Water	3	3	0.1	0.19	4.54	2.98	0.004	-	0.001	0.001	-	0.001	0.001	475.0	0.01	0.07
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Metro E Line Stn_U-Alt4-TBM Pass Through-Maintenance	6/1/2030	7/31/2030	6	52	20	2030	Water	3	3	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	2030	Water	-	-	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	2031	Water	-	-	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	2034	Water	-	-	0.1	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	2028	Water	3	3	0.1	0.19	4.54	2.98	0.004	-	0.001	0.001	-	0.001	0.001	475.0	0.01	0.07
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Santa Monica Stn_U-Alt4-TBM Pass Through-Maintenance	1/1/2031	2/28/2031	6	51	20	2031	Water	3	3	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	2030	Water	3	3	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	2032	Water	3	3	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	2030	Water	3	3	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
D Line Wilshire-Westwood Stn_U-Alt4-TBM Pass Through-Maintenance	8/1/2031	9/30/2031	6	52	20	2031	Water	3	3	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	2031	Water	3	3	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	2032	Water	3	3	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	2028	Water	3	3	0.1	0.19	4.54	2.98	0.004	-	0.001	0.001	-	0.001	0.001	475.0	0.01	0.07
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	2030	Water	-	-	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	2032	Water	-	-	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	2033	Water	-	-	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	2031	Water	3	3	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	2032	Water	3	3	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	2033	Water	3	3	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	2033	Water	3	3	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	2035	Water	3	3	0.1	0.19	4.12	3.05	0.004	-	0.001	0.001	-	0.001	0.001	445.5	0.01	0.07
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	2031	Water	3	3	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	2031	Water	3	3	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	2032	Water	3	3	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	2032	Water	3	3	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07

Sepulveda Transit Corridor Project - ALTERNATIVE 4

WATER TRUCKS (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	Daily Emissions (lb/day)													
											ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	2028	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	2028	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	2029	Water	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	2030	Water	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	2032	Water	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	2/13/2030	4/13/2032	7	791	20	2030	Water	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	4/14/2032	9/30/2033	7	535	20	2032	Water	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	10/1/2033	5/15/2034	7	227	20	2033	Water	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	2027	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	2027	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	2028	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	2028	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Water	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	2029	Water	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	2032	Water	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Fill	3/1/2029	12/31/2032	7	1402	20	2029	Water	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Slabs, Walkways, Plenum	9/3/2032	8/31/2034	7	728	20	2032	Water	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	2034	Water	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	2030	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	2030	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	2032	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	11/20/2030	1/15/2031	6	49	20	2030	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	2031	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	1/5/2034	2/3/2034	6	26	20	2034	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	2034	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	2034	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	8/18/2032	8/15/2033	6	311	20	2032	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	2030	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
Metro E Line Stn_U-Alt4-TBM Pass Through-Maintenance	6/1/2030	7/31/2030	6	52	20	2030	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	2030	Water	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	2031	Water	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	2034	Water	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	2028	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
Santa Monica Stn_U-Alt4-TBM Pass Through-Maintenance	1/1/2031	2/28/2031	6	51	20	2031	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	2030	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	2032	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	2030	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
D Line Wilshire-Westwood Stn_U-Alt4-TBM Pass Through-Maintenance	8/1/2031	9/30/2031	6	52	20	2031	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	2031	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	2032	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	2028	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	2030	Water	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	2032	Water	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	2033	Water	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	2031	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	2032	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	2035	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	2031	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	2031	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	2032	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	2032	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 4

WATER TRUCKS (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	Total Emissions (tons) ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	Total Emissions (metric tons) CO_2	CH_4	N_2O	CO_2e
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	2028	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	0.2	0.00	0.00	0.2
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	2028	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.000	0.01	0.00	0.000	0.00	0.2	0.00	0.00	0.2
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	2029	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.000	0.01	0.00	0.000	0.00	0.2	0.00	0.00	0.2
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	2029	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	0.1	0.00	0.00	0.1
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	2029	Water	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	2030	Water	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	2032	Water	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	2/13/2030	4/13/2032	7	791	20	2030	Water	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	4/14/2032	9/30/2033	7	535	20	2032	Water	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	10/1/2033	5/15/2034	7	227	20	2033	Water	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	2027	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.000	0.01	0.00	0.000	0.00	0.3	0.00	0.00	0.3
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	2027	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.000	0.01	0.00	0.000	0.00	0.2	0.00	0.00	0.2
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	2028	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.000	0.01	0.00	0.000	0.00	0.2	0.00	0.00	0.2
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	2028	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	0.1	0.00	0.00	0.1
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Water	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	2029	Water	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	2032	Water	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Fill	3/1/2029	12/31/2032	7	1402	20	2029	Water	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Slabs, Walkways, Plenum	9/3/2032	8/31/2034	7	728	20	2032	Water	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	2034	Water	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	2029	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.000	0.01	0.00	0.000	0.00	0.4	0.00	0.00	0.4
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	2030	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.000	0.01	0.00	0.000	0.00	0.5	0.00	0.00	0.5
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	2030	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.05	0.000	0.05	0.01	0.000	0.01	1.6	0.00	0.00	1.7
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	2032	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.000	0.01	0.00	0.000	0.00	0.3	0.00	0.00	0.4
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	11/20/2030	1/15/2031	6	49	20	2030	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	0.1	0.00	0.00	0.1
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	2031	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.06	0.000	0.06	0.01	0.000	0.01	1.8	0.00	0.00	1.8
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	1/5/2034	2/3/2034	6	26	20	2034	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	0.0	0.00	0.00	0.1
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	2034	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.000	0.01	0.00	0.000	0.00	0.4	0.00	0.00	0.5
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	2034	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.000	0.01	0.00	0.000	0.00	0.3	0.00	0.00	0.3
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	8/18/2032	8/15/2033	6	311	20	2032	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.02	0.000	0.02	0.00	0.000	0.00	0.6	0.00	0.00	0.6
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	0.1	0.00	0.00	0.1
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	2030	Water	3	3	0.1	0.00	0.02	0.01	0.00	0.09	0.000	0.09	0.01	0.000	0.01	2.8	0.00	0.00	3.0
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.000	0.01	0.00	0.000	0.00	0.4	0.00	0.00	0.4
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.02	0.000	0.02	0.00	0.000	0.00	0.5	0.00	0.00	0.5
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	2029	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.02	0.000	0.02	0.00	0.000	0.00	0.6	0.00	0.00	0.6
Metro E Line Stn_U-Alt4-TBM Pass Through-Maintenance	6/1/2030	7/31/2030	6	52	20	2030	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	0.1	0.00	0.00	0.1
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	2030	Water	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	2031	Water	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	2034	Water	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	2028	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.000	0.01	0.00	0.000	0.00	0.4	0.00	0.00	0.4
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	2029	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.02	0.000	0.02	0.00	0.000	0.00	0.5	0.00	0.00	0.5
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	2029	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.02	0.000	0.02	0.00	0.000	0.00	0.6	0.00	0.00	0.6
Santa Monica Stn_U-Alt4-TBM Pass Through-Maintenance	1/1/2031	2/28/2031	6	51	20	2031	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	0.1	0.00	0.00	0.1
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	2030	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.04	0.000	0.04	0.00	0.000	0.00	1.2	0.00	0.00	1.2
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	2032	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.05	0.000	0.05	0.00	0.000	0.00	1.4	0.00	0.00	1.5
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	2029	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.000	0.01	0.00	0.000	0.00	0.4	0.00	0.00	0.4
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	2029	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.02	0.000	0.02	0.00	0.000	0.00	0.5	0.00	0.00	0.5
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	2030	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.02	0.000	0.02	0.00	0.000	0.00	0.6	0.00	0.00	0.6
D Line Wilshire-Westwood Stn_U-Alt4-TBM Pass Through-Maintenance	8/1/2031	9/30/2031	6	52	20	2031	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	0.1	0.00	0.00	0.1
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	2031	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.03	0.000	0.03	0.00	0.000	0.00	1.0	0.00	0.00	1.1
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	2032	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.05	0.000	0.05	0.00	0.000	0.00	1.5	0.00	0.00	1.5
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	2028	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.000	0.01	0.00	0.000	0.00	0.4	0.00	0.00	0.4
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	2029	Water	3	3	0.1	0.00	0.01	0.00	0.00	0.02	0.000	0.02	0.00	0.000	0.00	0.7	0.00	0.00	0.7
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	2029	Water	3	3	0.1	0.00	0.01	0.00	0.00	0.03	0.000	0.03	0.00	0.000	0.00	0.8	0.00	0.00	0.8
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	2030	Water	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	2032	Water	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	2033	Water	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	2031	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.000	0.01	0.00	0.000	0.00	0.3	0.00	0.00	0.3
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	2032	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.02	0.000	0.02	0.00	0.000	0.00	0.5	0.00	0.00	0.5
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.000	0.01	0.00	0.000	0.00	0.3	0.00	0.00	0.3
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	2033	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.03	0.000	0.03	0.00	0.000	0.00	1.0	0.00	0.00	1.0
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	2035	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	0.1	0.00	0.00	0.1
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	2031	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.000	0.01	0.00	0.000	0.00	0.3	0.00	0.00	0.3
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	2031	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.000	0.01	0.00	0.000	0.00	0.4	0.00	0.00	0.4
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	2032	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.000	0.01	0.00	0.000	0.00	0.2	0.00	0.00	0.3
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	2032	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.03	0.000	0.03	0.00	0.000	0.00	1.1	0.00	0.00	1.1

Sepulveda Transit Corridor Project - ALTERNATIVE 4

WATER TRUCKS (ONSITE)

											Running Emission Factor (g/mile)[1,2,4]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	2030	Water	3	3	0.1	0.02	2.89	0.23	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1735.3	0.00	0.27
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	2030	Water	3	3	0.1	0.02	2.89	0.23	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1735.3	0.00	0.27
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	2031	Water	3	3	0.1	0.02	2.86	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1713.6	0.00	0.27
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	2032	Water	3	3	0.1	0.02	2.84	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1693.1	0.00	0.27
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	2033	Water	3	3	0.1	0.02	2.81	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1673.7	0.00	0.26
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	2029	Water	3	3	0.1	0.02	2.93	0.23	0.017	184.1	0.005	184.1	18.4	0.005	18.4	1757.8	0.00	0.28
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	2029	Water	3	3	0.1	0.02	2.93	0.23	0.017	184.1	0.005	184.1	18.4	0.005	18.4	1757.8	0.00	0.28
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	2030	Water	3	3	0.1	0.02	2.89	0.23	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1735.3	0.00	0.27
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	2031	Water	3	3	0.1	0.02	2.86	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1713.6	0.00	0.27
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	2032	Water	3	3	0.1	0.02	2.84	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1693.1	0.00	0.27
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Water	3	3	0.1	0.02	2.78	0.21	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1655.8	0.00	0.26
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Water	3	3	0.1	0.02	2.78	0.21	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1655.8	0.00	0.26
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Water	3	3	0.1	0.02	2.78	0.21	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1655.8	0.00	0.26
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Water	3	3	0.1	0.02	2.78	0.21	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1655.8	0.00	0.26
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Water	3	3	0.1	0.02	2.84	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1693.1	0.00	0.27
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Water	3	3	0.1	0.02	2.84	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1693.1	0.00	0.27
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Water	3	3	0.1	0.02	2.84	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1693.1	0.00	0.27
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Water	3	3	0.1	0.02	2.84	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1693.1	0.00	0.27
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Water	3	3	0.1	0.02	2.78	0.21	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1655.8	0.00	0.26
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Water	3	3	0.1	0.02	2.78	0.21	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1655.8	0.00	0.26
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Water	3	3	0.1	0.02	2.84	0.22	0.016	184.1	0.005	184.1	18.4	0.004	18.4	1693.1	0.00	0.27
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	2028	Water	3	3	0.1	0.02	2.97	0.24	0.017	184.1	0.005	184.1	18.4	0.005	18.4	1781.8	0.00	0.28
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Water	3	3	0.1	0.02	2.97	0.24	0.017	184.1	0.005	184.1	18.4	0.005	18.4	1781.8	0.00	0.28
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Water	3	3	0.1	0.02	2.97	0.24	0.017	184.1	0.005	184.1	18.4	0.005	18.4	1781.8	0.00	0.28

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** Heavy Duty-Mix (50% MHDT/50% HHDT); **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 4

WATER TRUCKS (ONSITE)

											Non-Running Emission Factor (g/trip)[1,3]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	2030	Water	3	3	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	2030	Water	3	3	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	2031	Water	3	3	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	2032	Water	3	3	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	2033	Water	3	3	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	2030	Water	3	3	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	2031	Water	3	3	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	2032	Water	3	3	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Water	3	3	0.1	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Water	3	3	0.1	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Water	3	3	0.1	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Water	3	3	0.1	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Water	3	3	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Water	3	3	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Water	3	3	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Water	3	3	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Water	3	3	0.1	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Water	3	3	0.1	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Water	3	3	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	2028	Water	3	3	0.1	0.19	4.54	2.98	0.004	-	0.001	0.001	-	0.001	0.001	475.0	0.01	0.07
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Water	3	3	0.1	0.19	4.54	2.98	0.004	-	0.001	0.001	-	0.001	0.001	475.0	0.01	0.07
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Water	3	3	0.1	0.19	4.54	2.98	0.004	-	0.001	0.001	-	0.001	0.001	475.0	0.01	0.07

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** Heavy Duty-Mix (50% MHDT/50% HHDT); **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 4

WATER TRUCKS (ONSITE)

											Daily Emissions (lb/day)												
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Hours per Workday**	**EF Year**	**Trip Type**	**Round Trips per Day**	**Daily Onsite Trips**	**One-Way Trip Length (mi)**	**ROG**	**NO_x**	**CO**	**SO_x**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**	**CO_2**	**CH_4**	**N_2O**
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	2030	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	2030	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	2031	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	2032	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	2030	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	2031	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	2032	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	2028	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.000	0.12	0.01	0.000	0.01	4	0.00	0.00

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** Heavy Duty-Mix (50% MHDT/50% HHDT); **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

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*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 4

WATER TRUCKS (ONSITE)

											Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	2030	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.000	0.01	0.00	0.000	0.00	0.3	0.00	0.00	0.3
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	2030	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.000	0.01	0.00	0.000	0.00	0.2	0.00	0.00	0.3
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	2031	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.000	0.01	0.00	0.000	0.00	0.4	0.00	0.00	0.5
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	2032	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.03	0.000	0.03	0.00	0.000	0.00	1.0	0.00	0.00	1.1
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	0.1	0.00	0.00	0.1
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	2029	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.000	0.01	0.00	0.000	0.00	0.3	0.00	0.00	0.3
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	2029	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.000	0.01	0.00	0.000	0.00	0.3	0.00	0.00	0.3
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	2030	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.000	0.01	0.00	0.000	0.00	0.4	0.00	0.00	0.5
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	2031	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.04	0.000	0.04	0.00	0.000	0.00	1.1	0.00	0.00	1.1
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	2032	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	0.1	0.00	0.00	0.1
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	0.1	0.00	0.00	0.1
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.000	0.01	0.00	0.000	0.00	0.2	0.00	0.00	0.2
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	0.0	0.00	0.00	0.0
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	0.0	0.00	0.00	0.0
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	0.1	0.00	0.00	0.2
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	0.1	0.00	0.00	0.1
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.000	0.01	0.00	0.000	0.00	0.2	0.00	0.00	0.3
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.05	0.000	0.05	0.00	0.000	0.00	1.5	0.00	0.00	1.5
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	0.1	0.00	0.00	0.1
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	0.1	0.00	0.00	0.2
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.04	0.000	0.04	0.00	0.000	0.00	1.2	0.00	0.00	1.2
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	2028	Water	3	3	0.1	0.00	0.02	0.01	0.00	0.09	0.000	0.09	0.01	0.000	0.01	2.8	0.00	0.00	2.9
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Water	3	3	0.1	0.00	0.05	0.03	0.00	0.18	0.000	0.18	0.02	0.000	0.02	5.8	0.00	0.00	6.1
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Water	3	3	0.1	0.00	0.04	0.02	0.00	0.15	0.000	0.15	0.02	0.000	0.02	4.9	0.00	0.00	5.1

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** Heavy Duty-Mix (50% MHDT/50% HHDT); **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 4

WATER TRUCKS (OFFSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Running Emission Factor (g/mile)[1,2,4] ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	2028	Water	3	6	2.0	0.01	0.91	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1267.9	0.00	0.20
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	2028	Water	3	6	2.0	0.01	0.91	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1267.9	0.00	0.20
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	2029	Water	3	6	2.0	0.01	0.89	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1254.2	0.00	0.20
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	2029	Water	3	6	2.0	0.01	0.89	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1254.2	0.00	0.20
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	2029	Water	-	-	2.0	0.01	0.89	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1254.2	0.00	0.20
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	2030	Water	-	-	2.0	0.01	0.87	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1240.9	0.00	0.20
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	2032	Water	-	-	2.0	0.01	0.84	0.04	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1215.1	0.00	0.19
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	2/13/2030	4/13/2032	7	791	20	2030	Water	-	-	2.0	0.01	0.87	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1240.9	0.00	0.20
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	4/14/2032	9/30/2033	7	535	20	2032	Water	-	-	2.0	0.01	0.84	0.04	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1215.1	0.00	0.19
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	10/1/2033	5/15/2034	7	227	20	2033	Water	-	-	2.0	0.01	0.82	0.04	0.011	0.4	0.015	0.4	0.1	0.015	0.1	1203.4	0.00	0.19
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	2027	Water	3	6	2.0	0.01	0.93	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1282.2	0.00	0.20
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	2027	Water	3	6	2.0	0.01	0.93	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1282.2	0.00	0.20
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	2028	Water	3	6	2.0	0.01	0.91	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1267.9	0.00	0.20
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	2028	Water	3	6	2.0	0.01	0.91	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1267.9	0.00	0.20
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Water	-	-	2.0	0.01	0.91	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1267.9	0.00	0.20
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	2029	Water	-	-	2.0	0.01	0.89	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1254.2	0.00	0.20
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	2032	Water	-	-	2.0	0.01	0.84	0.04	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1215.1	0.00	0.19
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Fill	3/1/2029	12/31/2032	7	1402	20	2029	Water	-	-	2.0	0.01	0.89	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1254.2	0.00	0.20
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Slabs, Walkways, Plenum	9/3/2032	8/31/2034	7	728	20	2032	Water	-	-	2.0	0.01	0.84	0.04	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1215.1	0.00	0.19
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	2034	Water	-	-	2.0	0.01	0.81	0.04	0.011	0.4	0.015	0.4	0.1	0.015	0.1	1192.3	0.00	0.19
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	2029	Water	3	6	2.0	0.01	0.89	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1254.2	0.00	0.20
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	2030	Water	3	6	2.0	0.01	0.87	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1240.9	0.00	0.20
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	2030	Water	3	6	2.0	0.01	0.87	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1240.9	0.00	0.20
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	2032	Water	3	6	2.0	0.01	0.84	0.04	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1215.1	0.00	0.19
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	11/20/2030	1/15/2031	6	49	20	2030	Water	3	6	2.0	0.01	0.87	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1240.9	0.00	0.20
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	2031	Water	3	6	2.0	0.01	0.85	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1227.8	0.00	0.19
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	1/5/2034	2/3/2034	6	26	20	2034	Water	3	6	2.0	0.01	0.81	0.04	0.011	0.4	0.015	0.4	0.1	0.015	0.1	1192.3	0.00	0.19
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	2034	Water	3	6	2.0	0.01	0.81	0.04	0.011	0.4	0.015	0.4	0.1	0.015	0.1	1192.3	0.00	0.19
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	2034	Water	3	6	2.0	0.01	0.81	0.04	0.011	0.4	0.015	0.4	0.1	0.015	0.1	1192.3	0.00	0.19
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	8/18/2032	8/15/2033	6	311	20	2032	Water	3	6	2.0	0.01	0.84	0.04	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1215.1	0.00	0.19
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Water	3	6	2.0	0.01	0.87	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1240.9	0.00	0.20
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	2030	Water	3	6	2.0	0.01	0.87	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1240.9	0.00	0.20
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Water	3	6	2.0	0.01	0.93	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1282.2	0.00	0.20
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Water	3	6	2.0	0.01	0.91	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1267.9	0.00	0.20
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	2029	Water	3	6	2.0	0.01	0.89	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1254.2	0.00	0.20
Metro E Line Stn_U-Alt4-TBM Pass Through-Maintenance	6/1/2030	7/31/2030	6	52	20	2030	Water	3	6	2.0	0.01	0.87	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1240.9	0.00	0.20
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	2030	Water	-	-	2.0	0.01	0.87	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1240.9	0.00	0.20
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	2031	Water	-	-	2.0	0.01	0.85	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1227.8	0.00	0.19
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	2034	Water	-	-	2.0	0.01	0.81	0.04	0.011	0.4	0.015	0.4	0.1	0.015	0.1	1192.3	0.00	0.19
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	2028	Water	3	6	2.0	0.01	0.91	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1267.9	0.00	0.20
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	2029	Water	3	6	2.0	0.01	0.89	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1254.2	0.00	0.20
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	2029	Water	3	6	2.0	0.01	0.89	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1254.2	0.00	0.20
Santa Monica Stn_U-Alt4-TBM Pass Through-Maintenance	1/1/2031	2/28/2031	6	51	20	2031	Water	3	6	2.0	0.01	0.85	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1227.8	0.00	0.19
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	2030	Water	3	6	2.0	0.01	0.87	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1240.9	0.00	0.20
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	2032	Water	3	6	2.0	0.01	0.84	0.04	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1215.1	0.00	0.19
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	2029	Water	3	6	2.0	0.01	0.89	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1254.2	0.00	0.20
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	2029	Water	3	6	2.0	0.01	0.89	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1254.2	0.00	0.20
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	2030	Water	3	6	2.0	0.01	0.87	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1240.9	0.00	0.20
D Line Wilshire-Westwood Stn_U-Alt4-TBM Pass Through-Maintenance	8/1/2031	9/30/2031	6	52	20	2031	Water	3	6	2.0	0.01	0.85	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1227.8	0.00	0.19
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	2031	Water	3	6	2.0	0.01	0.85	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1227.8	0.00	0.19
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	2032	Water	3	6	2.0	0.01	0.84	0.04	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1215.1	0.00	0.19
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	2028	Water	3	6	2.0	0.01	0.91	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1267.9	0.00	0.20
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	2029	Water	3	6	2.0	0.01	0.89	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1254.2	0.00	0.20
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	2029	Water	3	6	2.0	0.01	0.89	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1254.2	0.00	0.20
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	2030	Water	-	-	2.0	0.01	0.87	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1240.9	0.00	0.20
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	2032	Water	-	-	2.0	0.01	0.84	0.04	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1215.1	0.00	0.19
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	2033	Water	-	-	2.0	0.01	0.82	0.04	0.011	0.4	0.015	0.4	0.1	0.015	0.1	1203.4	0.00	0.19
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	2031	Water	3	6	2.0	0.01	0.85	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1227.8	0.00	0.19
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	2032	Water	3	6	2.0	0.01	0.84	0.04	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1215.1	0.00	0.19
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	2033	Water	3	6	2.0	0.01	0.82	0.04	0.011	0.4	0.015	0.4	0.1	0.015	0.1	1203.4	0.00	0.19
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	2033	Water	3	6	2.0	0.01	0.82	0.04	0.011	0.4	0.015	0.4	0.1	0.015	0.1	1203.4	0.00	0.19
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	2035	Water	3	6	2.0	0.01	0.79	0.04	0.011	0.4	0.015	0.4	0.1	0.014	0.1	1182.1	0.00	0.19

Sepulveda Transit Corridor Project - ALTERNATIVE 4

WATER TRUCKS (OFFSITE)

											Non-Running Emission Factor (g/trip)[1,3]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	2028	Water	3	6	2.0	0.19	4.54	2.98	0.004	-	0.001	0.001	-	0.001	0.001	475.0	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	2028	Water	3	6	2.0	0.19	4.54	2.98	0.004	-	0.001	0.001	-	0.001	0.001	475.0	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	2029	Water	3	6	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	2029	Water	3	6	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	2029	Water	-	-	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	2030	Water	-	-	2.0	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	2032	Water	-	-	2.0	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	2/13/2030	4/13/2032	7	791	20	2030	Water	-	-	2.0	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	4/14/2032	9/30/2033	7	535	20	2032	Water	-	-	2.0	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	10/1/2033	5/15/2034	7	227	20	2033	Water	-	-	2.0	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	2027	Water	3	6	2.0	0.19	4.64	2.98	0.005	-	0.001	0.001	-	0.001	0.001	482.8	0.01	0.08
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	2027	Water	3	6	2.0	0.19	4.64	2.98	0.005	-	0.001	0.001	-	0.001	0.001	482.8	0.01	0.08
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	2028	Water	3	6	2.0	0.19	4.54	2.98	0.004	-	0.001	0.001	-	0.001	0.001	475.0	0.01	0.07
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	2028	Water	3	6	2.0	0.19	4.54	2.98	0.004	-	0.001	0.001	-	0.001	0.001	475.0	0.01	0.07
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Water	-	-	2.0	0.19	4.54	2.98	0.004	-	0.001	0.001	-	0.001	0.001	475.0	0.01	0.07
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	2029	Water	-	-	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	2032	Water	-	-	2.0	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Fill	3/1/2029	12/31/2032	7	1402	20	2029	Water	-	-	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Slabs, Walkways, Plenum	9/3/2032	8/31/2034	7	728	20	2032	Water	-	-	2.0	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	2034	Water	-	-	2.0	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	2029	Water	3	6	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	2030	Water	3	6	2.0	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	2030	Water	3	6	2.0	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	2032	Water	3	6	2.0	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	11/20/2030	1/15/2031	6	49	20	2030	Water	3	6	2.0	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	2031	Water	3	6	2.0	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	1/5/2034	2/3/2034	6	26	20	2034	Water	3	6	2.0	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	2034	Water	3	6	2.0	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	2034	Water	3	6	2.0	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	8/18/2032	8/15/2033	6	311	20	2032	Water	3	6	2.0	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Water	3	6	2.0	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	2030	Water	3	6	2.0	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Water	3	6	2.0	0.19	4.64	2.98	0.005	-	0.001	0.001	-	0.001	0.001	482.8	0.01	0.08
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Water	3	6	2.0	0.19	4.54	2.98	0.004	-	0.001	0.001	-	0.001	0.001	475.0	0.01	0.07
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	2029	Water	3	6	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Metro E Line Stn_U-Alt4-TBM Pass Through-Maintenance	6/1/2030	7/31/2030	6	52	20	2030	Water	3	6	2.0	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	2030	Water	-	-	2.0	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	2031	Water	-	-	2.0	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	2034	Water	-	-	2.0	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	2028	Water	3	6	2.0	0.19	4.54	2.98	0.004	-	0.001	0.001	-	0.001	0.001	475.0	0.01	0.07
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	2029	Water	3	6	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	2029	Water	3	6	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Santa Monica Stn_U-Alt4-TBM Pass Through-Maintenance	1/1/2031	2/28/2031	6	51	20	2031	Water	3	6	2.0	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	2030	Water	3	6	2.0	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	2032	Water	3	6	2.0	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	2029	Water	3	6	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	2029	Water	3	6	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	2030	Water	3	6	2.0	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
D Line Wilshire-Westwood Stn_U-Alt4-TBM Pass Through-Maintenance	8/1/2031	9/30/2031	6	52	20	2031	Water	3	6	2.0	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	2031	Water	3	6	2.0	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	2032	Water	3	6	2.0	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	2028	Water	3	6	2.0	0.19	4.54	2.98	0.004	-	0.001	0.001	-	0.001	0.001	475.0	0.01	0.07
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	2029	Water	3	6	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	2029	Water	3	6	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	2030	Water	-	-	2.0	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	2032	Water	-	-	2.0	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	2033	Water	-	-	2.0	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	2031	Water	3	6	2.0	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	2032	Water	3	6	2.0	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	2033	Water	3	6	2.0	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	2033	Water	3	6	2.0	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	2035	Water	3	6	2.0	0.19	4.12	3.05	0.004	-	0.001	0.001	-	0.001	0.001	445.5	0.01	0.07

Sepulveda Transit Corridor Project - ALTERNATIVE 4

WATER TRUCKS (OFFSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Daily Emissions (lb/day)												
											ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	2028	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	40	0.00	0.01
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	2028	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	40	0.00	0.01
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	2029	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	39	0.00	0.01
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	2029	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	39	0.00	0.01
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	2029	Water	-	-	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	2030	Water	-	-	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	2032	Water	-	-	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	2/13/2030	4/13/2032	7	791	20	2030	Water	-	-	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	4/14/2032	9/30/2033	7	535	20	2032	Water	-	-	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	10/1/2033	5/15/2034	7	227	20	2033	Water	-	-	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	2027	Water	3	6	2.0	0.00	0.09	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	40	0.00	0.01
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	2027	Water	3	6	2.0	0.00	0.09	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	40	0.00	0.01
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	2028	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	40	0.00	0.01
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	2028	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	40	0.00	0.01
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Water	-	-	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	2029	Water	-	-	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	2032	Water	-	-	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Fill	3/1/2029	12/31/2032	7	1402	20	2029	Water	-	-	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Slabs, Walkways, Plenum	9/3/2032	8/31/2034	7	728	20	2032	Water	-	-	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	2034	Water	-	-	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	2029	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	39	0.00	0.01
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	2030	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	39	0.00	0.01
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	2030	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	39	0.00	0.01
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	2032	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	38	0.00	0.01
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	11/20/2030	1/15/2031	6	49	20	2030	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	39	0.00	0.01
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	2031	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	39	0.00	0.01
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	1/5/2034	2/3/2034	6	26	20	2034	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	37	0.00	0.01
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	2034	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	37	0.00	0.01
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	2034	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	37	0.00	0.01
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	8/18/2032	8/15/2033	6	311	20	2032	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	38	0.00	0.01
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	39	0.00	0.01
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	2030	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	39	0.00	0.01
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Water	3	6	2.0	0.00	0.09	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	40	0.00	0.01
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	40	0.00	0.01
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	2029	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	39	0.00	0.01
Metro E Line Stn_U-Alt4-TBM Pass Through-Maintenance	6/1/2030	7/31/2030	6	52	20	2030	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	39	0.00	0.01
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	2030	Water	-	-	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	2031	Water	-	-	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	2034	Water	-	-	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	2028	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	40	0.00	0.01
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	2029	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	39	0.00	0.01
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	2029	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	39	0.00	0.01
Santa Monica Stn_U-Alt4-TBM Pass Through-Maintenance	1/1/2031	2/28/2031	6	51	20	2031	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	39	0.00	0.01
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	2030	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	39	0.00	0.01
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	2032	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	38	0.00	0.01
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	2029	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	39	0.00	0.01
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	2029	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	39	0.00	0.01
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	2030	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	39	0.00	0.01
D Line Wilshire-Westwood Stn_U-Alt4-TBM Pass Through-Maintenance	8/1/2031	9/30/2031	6	52	20	2031	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	39	0.00	0.01
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	2031	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	39	0.00	0.01
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	2032	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	38	0.00	0.01
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	2028	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	40	0.00	0.01
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	2029	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	39	0.00	0.01
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	2029	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	39	0.00	0.01
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	2030	Water	-	-	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	2032	Water	-	-	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	2033	Water	-	-	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	2031	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	39	0.00	0.01
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	2032	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	38	0.00	0.01
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	2033	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	38	0.00	0.01
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	2033	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	38	0.00	0.01
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	2035	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	37	0.00	0.01

Sepulveda Transit Corridor Project - ALTERNATIVE 4

WATER TRUCKS (OFFSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Total Emissions (tons)										Total Emissions (metric tons)			
											ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	2028	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	1.4	0.00	0.00	1.5
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	2028	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	1.9	0.00	0.00	2.0
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	2029	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	1.9	0.00	0.00	1.9
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	2029	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	0.9	0.00	0.00	0.9
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	2029	Water	-	-	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	2030	Water	-	-	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	2032	Water	-	-	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	2/13/2030	4/13/2032	7	791	20	2030	Water	-	-	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	4/14/2032	9/30/2033	7	535	20	2032	Water	-	-	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	10/1/2033	5/15/2034	7	227	20	2033	Water	-	-	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	2027	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	2.4	0.00	0.00	2.5
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	2027	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	1.9	0.00	0.00	2.0
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	2028	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	1.9	0.00	0.00	2.0
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	2028	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	1.0	0.00	0.00	1.0
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Water	-	-	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	2029	Water	-	-	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	2032	Water	-	-	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Fill	3/1/2029	12/31/2032	7	1402	20	2029	Water	-	-	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Slabs, Walkways, Plenum	9/3/2032	8/31/2034	7	728	20	2032	Water	-	-	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	2034	Water	-	-	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	2029	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	3.7	0.00	0.00	3.9
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	2030	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	4.2	0.00	0.00	4.4
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	2030	Water	3	6	2.0	0.00	0.03	0.02	0.00	0.00	0.000	0.00	0.00	0.000	0.00	15.2	0.00	0.00	16.0
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	2032	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	3.2	0.00	0.00	3.3
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	11/20/2030	1/15/2031	6	49	20	2030	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	0.9	0.00	0.00	0.9
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	2031	Water	3	6	2.0	0.00	0.04	0.02	0.00	0.00	0.000	0.00	0.00	0.000	0.00	16.3	0.00	0.00	17.0
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	1/5/2034	2/3/2034	6	26	20	2034	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	0.4	0.00	0.00	0.5
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	2034	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	4.0	0.00	0.00	4.2
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	2034	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	2.6	0.00	0.00	2.8
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	8/18/2032	8/15/2033	6	311	20	2032	Water	3	6	2.0	0.00	0.01	0.01	0.00	0.00	0.000	0.00	0.00	0.000	0.00	5.4	0.00	0.00	5.6
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	1.0	0.00	0.00	1.0
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	2030	Water	3	6	2.0	0.00	0.06	0.03	0.00	0.01	0.000	0.01	0.00	0.000	0.00	26.4	0.00	0.00	27.6
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	3.8	0.00	0.00	4.0
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Water	3	6	2.0	0.00	0.01	0.01	0.00	0.00	0.000	0.00	0.00	0.000	0.00	4.7	0.00	0.00	4.9
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	2029	Water	3	6	2.0	0.00	0.01	0.01	0.00	0.00	0.000	0.00	0.00	0.000	0.00	5.6	0.00	0.00	5.8
Metro E Line Stn_U-Alt4-TBM Pass Through-Maintenance	6/1/2030	7/31/2030	6	52	20	2030	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	0.9	0.00	0.00	1.0
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	2030	Water	-	-	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	2031	Water	-	-	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	2034	Water	-	-	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	2028	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	3.7	0.00	0.00	3.9
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	2029	Water	3	6	2.0	0.00	0.01	0.01	0.00	0.00	0.000	0.00	0.00	0.000	0.00	4.7	0.00	0.00	5.0
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	2029	Water	3	6	2.0	0.00	0.01	0.01	0.00	0.00	0.000	0.00	0.00	0.000	0.00	5.6	0.00	0.00	5.9
Santa Monica Stn_U-Alt4-TBM Pass Through-Maintenance	1/1/2031	2/28/2031	6	51	20	2031	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	0.9	0.00	0.00	0.9
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	2030	Water	3	6	2.0	0.00	0.02	0.01	0.00	0.00	0.000	0.00	0.00	0.000	0.00	11.0	0.00	0.00	11.5
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	2032	Water	3	6	2.0	0.00	0.03	0.02	0.00	0.00	0.000	0.00	0.00	0.000	0.00	13.4	0.00	0.00	14.0
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	2029	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	3.7	0.00	0.00	3.9
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	2029	Water	3	6	2.0	0.00	0.01	0.01	0.00	0.00	0.000	0.00	0.00	0.000	0.00	4.7	0.00	0.00	4.9
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	2030	Water	3	6	2.0	0.00	0.01	0.01	0.00	0.00	0.000	0.00	0.00	0.000	0.00	5.5	0.00	0.00	5.8
D Line Wilshire-Westwood Stn_U-Alt4-TBM Pass Through-Maintenance	8/1/2031	9/30/2031	6	52	20	2031	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	0.9	0.00	0.00	1.0
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	2031	Water	3	6	2.0	0.00	0.02	0.01	0.00	0.00	0.000	0.00	0.00	0.000	0.00	9.5	0.00	0.00	10.0
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	2032	Water	3	6	2.0	0.00	0.03	0.02	0.00	0.00	0.000	0.00	0.00	0.000	0.00	13.6	0.00	0.00	14.2
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	2028	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	3.7	0.00	0.00	3.9
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	2029	Water	3	6	2.0	0.00	0.02	0.01	0.00	0.00	0.000	0.00	0.00	0.000	0.00	6.6	0.00	0.00	6.9
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	2029	Water	3	6	2.0	0.00	0.02	0.01	0.00	0.00	0.000	0.00	0.00	0.000	0.00	7.4	0.00	0.00	7.8
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	2030	Water	-	-	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	2032	Water	-	-	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	2033	Water	-	-	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	2031	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	2.7	0.00	0.00	2.9
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	2032	Water	3	6	2.0	0.00	0.01	0.01	0.00	0.00	0.000	0.00	0.00	0.000	0.00	4.6	0.00	0.00	4.8
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	2033	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	2.6	0.00	0.00	2.7
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	2033	Water	3	6	2.0	0.00	0.02	0.01	0.00	0.00	0.000	0.00	0.00	0.000	0.00	9.0	0.00	0.00	9.4
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	2035	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	0.9	0.00	0.00	1.0

Sepulveda Transit Corridor Project - ALTERNATIVE 4

WATER TRUCKS (OFFSITE)

											Running Emission Factor (g/mile)[1,2,4]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	2031	Water	3	6	2.0	0.01	0.85	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1227.8	0.00	0.19
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	2031	Water	3	6	2.0	0.01	0.85	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1227.8	0.00	0.19
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	2032	Water	3	6	2.0	0.01	0.84	0.04	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1215.1	0.00	0.19
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	2032	Water	3	6	2.0	0.01	0.84	0.04	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1215.1	0.00	0.19
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	2030	Water	3	6	2.0	0.01	0.87	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1240.9	0.00	0.20
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	2030	Water	3	6	2.0	0.01	0.87	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1240.9	0.00	0.20
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	2031	Water	3	6	2.0	0.01	0.85	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1227.8	0.00	0.19
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	2032	Water	3	6	2.0	0.01	0.84	0.04	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1215.1	0.00	0.19
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	2033	Water	3	6	2.0	0.01	0.82	0.04	0.011	0.4	0.015	0.4	0.1	0.015	0.1	1203.4	0.00	0.19
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	2029	Water	3	6	2.0	0.01	0.89	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1254.2	0.00	0.20
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	2029	Water	3	6	2.0	0.01	0.89	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1254.2	0.00	0.20
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	2030	Water	3	6	2.0	0.01	0.87	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1240.9	0.00	0.20
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	2031	Water	3	6	2.0	0.01	0.85	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1227.8	0.00	0.19
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	2032	Water	3	6	2.0	0.01	0.84	0.04	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1215.1	0.00	0.19
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Water	3	6	2.0	0.01	0.81	0.04	0.011	0.4	0.015	0.4	0.1	0.015	0.1	1192.3	0.00	0.19
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Water	3	6	2.0	0.01	0.81	0.04	0.011	0.4	0.015	0.4	0.1	0.015	0.1	1192.3	0.00	0.19
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Water	3	6	2.0	0.01	0.81	0.04	0.011	0.4	0.015	0.4	0.1	0.015	0.1	1192.3	0.00	0.19
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Water	3	6	2.0	0.01	0.81	0.04	0.011	0.4	0.015	0.4	0.1	0.015	0.1	1192.3	0.00	0.19
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Water	3	6	2.0	0.01	0.84	0.04	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1215.1	0.00	0.19
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Water	3	6	2.0	0.01	0.84	0.04	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1215.1	0.00	0.19
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Water	3	6	2.0	0.01	0.84	0.04	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1215.1	0.00	0.19
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Water	3	6	2.0	0.01	0.84	0.04	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1215.1	0.00	0.19
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Water	3	6	2.0	0.01	0.81	0.04	0.011	0.4	0.015	0.4	0.1	0.015	0.1	1192.3	0.00	0.19
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Water	3	6	2.0	0.01	0.81	0.04	0.011	0.4	0.015	0.4	0.1	0.015	0.1	1192.3	0.00	0.19
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Water	3	6	2.0	0.01	0.84	0.04	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1215.1	0.00	0.19
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	2028	Water	3	6	2.0	0.01	0.91	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1267.9	0.00	0.20
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Water	3	6	2.0	0.01	0.91	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1267.9	0.00	0.20
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Water	3	6	2.0	0.01	0.91	0.05	0.012	0.4	0.015	0.4	0.1	0.015	0.1	1267.9	0.00	0.20

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate Speeds; **Fleet Mix:100%** HHDT); **Fuel Type:** Diesel
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 4

WATER TRUCKS (OFFSITE)

											Non-Running Emission Factor (g/trip)[1,3]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	2031	Water	3	6	2.0	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	2031	Water	3	6	2.0	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	2032	Water	3	6	2.0	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	2032	Water	3	6	2.0	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	2030	Water	3	6	2.0	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	2030	Water	3	6	2.0	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	2031	Water	3	6	2.0	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	2032	Water	3	6	2.0	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	2033	Water	3	6	2.0	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	2029	Water	3	6	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	2029	Water	3	6	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	2030	Water	3	6	2.0	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	2031	Water	3	6	2.0	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	2032	Water	3	6	2.0	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Water	3	6	2.0	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Water	3	6	2.0	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Water	3	6	2.0	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Water	3	6	2.0	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Water	3	6	2.0	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Water	3	6	2.0	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Water	3	6	2.0	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Water	3	6	2.0	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Water	3	6	2.0	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Water	3	6	2.0	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Water	3	6	2.0	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	2028	Water	3	6	2.0	0.19	4.54	2.98	0.004	-	0.001	0.001	-	0.001	0.001	475.0	0.01	0.07
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Water	3	6	2.0	0.19	4.54	2.98	0.004	-	0.001	0.001	-	0.001	0.001	475.0	0.01	0.07
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Water	3	6	2.0	0.19	4.54	2.98	0.004	-	0.001	0.001	-	0.001	0.001	475.0	0.01	0.07

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate Speeds; **Fleet Mix:100%** HHDT);
Fuel Type: Diesel

2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.

3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 4

WATER TRUCKS (OFFSITE)

											Daily Emissions (lb/day)												
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Hours per Workday**	**EF Year**	**Trip Type**	**Round Trips per Day**	**Total One-Way Trips per Day**	**One-Way Trip Length (mi)**	**ROG**	**NO_x**	**CO**	**SO_x**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**	**CO_2**	**CH_4**	**N_2O**
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	2031	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	39	0.00	0.01
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	2031	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	39	0.00	0.01
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	2032	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	38	0.00	0.01
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	2032	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	38	0.00	0.01
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	2030	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	39	0.00	0.01
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	2030	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	39	0.00	0.01
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	2031	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	39	0.00	0.01
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	2032	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	38	0.00	0.01
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	2033	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	38	0.00	0.01
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	2029	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	39	0.00	0.01
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	2029	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	39	0.00	0.01
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	2030	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	39	0.00	0.01
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	2031	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	39	0.00	0.01
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	2032	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	38	0.00	0.01
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	37	0.00	0.01
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	37	0.00	0.01
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	37	0.00	0.01
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	37	0.00	0.01
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	38	0.00	0.01
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	38	0.00	0.01
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	38	0.00	0.01
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	38	0.00	0.01
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	37	0.00	0.01
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	37	0.00	0.01
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	38	0.00	0.01
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	2028	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	40	0.00	0.01
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	40	0.00	0.01
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.000	0.01	0.00	0.000	0.00	40	0.00	0.01

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate Speeds; **Fleet Mix:100%** HHDT); **Fuel Type:** Diesel
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 4

WATER TRUCKS (OFFSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Total Emissions (tons)										Total Emissions (metric tons)			
											ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	2031	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	2.7	0.00	0.00	2.8
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	2031	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	3.7	0.00	0.00	3.9
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	2032	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	2.2	0.00	0.00	2.4
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	2032	Water	3	6	2.0	0.00	0.02	0.01	0.00	0.00	0.000	0.00	0.00	0.000	0.00	9.9	0.00	0.00	10.4
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	2030	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	2.7	0.00	0.00	2.9
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	2030	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	2.3	0.00	0.00	2.4
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	2031	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	4.1	0.00	0.00	4.3
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	2032	Water	3	6	2.0	0.00	0.02	0.01	0.00	0.00	0.000	0.00	0.00	0.000	0.00	9.6	0.00	0.00	10.0
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	2033	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	0.9	0.00	0.00	1.0
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	2029	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	2.8	0.00	0.00	2.9
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	2029	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	2.4	0.00	0.00	2.5
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	2030	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	4.1	0.00	0.00	4.3
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	2031	Water	3	6	2.0	0.00	0.02	0.01	0.00	0.00	0.000	0.00	0.00	0.000	0.00	10.1	0.00	0.00	10.6
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	2032	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	0.9	0.00	0.00	1.0
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	1.3	0.00	0.00	1.4
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	1.8	0.00	0.00	1.9
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	0.1	0.00	0.00	0.1
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	0.4	0.00	0.00	0.4
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	1.3	0.00	0.00	1.4
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	0.9	0.00	0.00	0.9
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	2.3	0.00	0.00	2.4
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Water	3	6	2.0	0.00	0.03	0.02	0.00	0.00	0.000	0.00	0.00	0.000	0.00	13.5	0.00	0.00	14.2
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	0.9	0.00	0.00	0.9
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00	0.000	0.00	1.3	0.00	0.00	1.4
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Water	3	6	2.0	0.00	0.02	0.01	0.00	0.00	0.000	0.00	0.00	0.000	0.00	10.8	0.00	0.00	11.3
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	2028	Water	3	6	2.0	0.00	0.06	0.03	0.00	0.01	0.000	0.01	0.00	0.000	0.00	25.9	0.00	0.00	27.2
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Water	3	6	2.0	0.00	0.12	0.06	0.00	0.02	0.001	0.02	0.00	0.001	0.00	53.7	0.00	0.01	56.2
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Water	3	6	2.0	0.00	0.11	0.05	0.00	0.01	0.001	0.01	0.00	0.001	0.00	45.2	0.00	0.01	47.4

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate Speeds; **Fleet Mix:100%** HHDT;
Fuel Type: Diesel
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 4

ARCHITECTURAL COATINGS-NON-RESIDENTIAL BUILDINGS (ONSITE)

								Non-Residential Interior						Non-Residential Exterior							
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	Coating Type	Building Area (SF)	VOC Content (g/L)	Interior EF (lb VOC/SF)	Interior Fraction of Surface Area	Surface Area Factor	Interior Surface Area (SF)	Interior Emissions (lbs)	VOC Content (g/L)	Exterior EF (lb VOC/SF)	Exterior Fraction of Surface Area	Surface Area Factor	Exterior Surface Area (SF)	Exterior Emissions (lbs)	Total ROG Emissions (tons)	Daily ROG Emissions (lb/day)
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	2/13/2030	4/13/2032	7	791	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	4/14/2032	9/30/2033	7	535	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	10/1/2033	5/15/2034	7	227	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Fill	3/1/2029	12/31/2032	7	1402	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Slabs, Walkways, Plenum	9/3/2032	8/31/2034	7	728	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	11/20/2030	1/15/2031	6	49	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	1/5/2034	2/3/2034	6	26	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	8/18/2032	8/15/2033	6	311	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Metro E Line Stn_U-Alt4-TBM Pass Through-Maintenance	6/1/2030	7/31/2030	6	52	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Santa Monica Stn_U-Alt4-TBM Pass Through-Maintenance	1/1/2031	2/28/2031	6	51	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-TBM Pass Through-Maintenance	8/1/2031	9/30/2031	6	52	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 4

ARCHITECTURAL COATINGS-NON-RESIDENTIAL BUILDINGS (ONSITE)

								Non-Residential Interior						Non-Residential Exterior							
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	Coating Type	Building Area (SF)	VOC Content (g/L)	Interior EF (lb VOC/SF)	Interior Fraction of Surface Area	Surface Area Factor	Interior Surface Area (SF)	Interior Emissions (lbs)	VOC Content (g/L)	Exterior EF (lb VOC/SF)	Exterior Fraction of Surface Area	Surface Area Factor	Exterior Surface Area (SF)	Exterior Emissions (lbs)	Total ROG Emissions (tons)	Daily ROG Emissions (lb/day)
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
MSF-Grading	3/1/2032	7/31/2032	6	132	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	Non-Residential	268800	100	0.00464	75%	2.0	403200.0	1869.2	100	0.00464	25%	2.0	134400.0	623.1	1.25	3.19
MSF-Paving	12/1/2034	1/30/2035	6	52	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-

Notes:

1. VOC content values based on CalEEMod default values.
2. Emissions calculated in accordance with CalEEMod methodology.

Sepulveda Transit Corridor Project - ALTERNATIVE 4

ARCHITECTURAL COATINGS-PARKING (ONSITE)

								Parking Paved Area					
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Hours per Workday**	**Coating Type**	**Parking Area (SF)**	**VOC Content (g/L)**	**Parking EF (lb VOC/SF)**	**% of Parking Area Painted**	**Parking Area to Be Painted (SF)**	**Total ROG Emissions (tons)**	**Daily ROG Emissions (lb/day)**
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	Parking	-	100	0.00464	6%	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	Parking	-	100	0.00464	6%	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	Parking	-	100	0.00464	6%	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	Parking	-	100	0.00464	6%	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	Parking	-	100	0.00464	6%	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	Parking	-	100	0.00464	6%	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	Parking	-	100	0.00464	6%	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	2/13/2030	4/13/2032	7	791	20	Parking	-	100	0.00464	6%	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	4/14/2032	9/30/2033	7	535	20	Parking	-	100	0.00464	6%	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	10/1/2033	5/15/2034	7	227	20	Parking	-	100	0.00464	6%	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	Parking	-	100	0.00464	6%	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	Parking	-	100	0.00464	6%	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	Parking	-	100	0.00464	6%	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	Parking	-	100	0.00464	6%	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	Parking	-	100	0.00464	6%	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	Parking	-	100	0.00464	6%	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	Parking	-	100	0.00464	6%	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Fill	3/1/2029	12/31/2032	7	1402	20	Parking	-	100	0.00464	6%	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Slabs, Walkways, Plenum	9/3/2032	8/31/2034	7	728	20	Parking	-	100	0.00464	6%	-	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	Parking	-	100	0.00464	6%	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	Parking	-	100	0.00464	6%	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	Parking	-	100	0.00464	6%	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	Parking	-	100	0.00464	6%	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	Parking	-	100	0.00464	6%	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	11/20/2030	1/15/2031	6	49	20	Parking	-	100	0.00464	6%	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	Parking	-	100	0.00464	6%	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	1/5/2034	2/3/2034	6	26	20	Parking	-	100	0.00464	6%	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	Parking	-	100	0.00464	6%	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	Parking	-	100	0.00464	6%	-	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	8/18/2032	8/15/2033	6	311	20	Parking	1246080	100	0.00464	6%	74765	0.1733	1.1145
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	Parking	-	100	0.00464	6%	-	-	-
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	Parking	-	100	0.00464	6%	-	-	-
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	Parking	-	100	0.00464	6%	-	-	-
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	Parking	-	100	0.00464	6%	-	-	-
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	Parking	-	100	0.00464	6%	-	-	-
Metro E Line Stn_U-Alt4-TBM Pass Through-Maintenance	6/1/2030	7/31/2030	6	52	20	Parking	-	100	0.00464	6%	-	-	-
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	Parking	-	100	0.00464	6%	-	-	-
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	Parking	-	100	0.00464	6%	-	-	-
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	Parking	58043	100	0.00464	6%	3483	0.0081	0.3295
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	Parking	-	100	0.00464	6%	-	-	-
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	Parking	-	100	0.00464	6%	-	-	-
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	Parking	-	100	0.00464	6%	-	-	-
Santa Monica Stn_U-Alt4-TBM Pass Through-Maintenance	1/1/2031	2/28/2031	6	51	20	Parking	-	100	0.00464	6%	-	-	-
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	Parking	-	100	0.00464	6%	-	-	-
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	Parking	-	100	0.00464	6%	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	Parking	-	100	0.00464	6%	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	Parking	-	100	0.00464	6%	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	Parking	-	100	0.00464	6%	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-TBM Pass Through-Maintenance	8/1/2031	9/30/2031	6	52	20	Parking	-	100	0.00464	6%	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	Parking	-	100	0.00464	6%	-	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	Parking	-	100	0.00464	6%	-	-	-
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	Parking	-	100	0.00464	6%	-	-	-
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	Parking	-	100	0.00464	6%	-	-	-
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	Parking	-	100	0.00464	6%	-	-	-
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	Parking	-	100	0.00464	6%	-	-	-
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	Parking	-	100	0.00464	6%	-	-	-
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	Parking	-	100	0.00464	6%	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 4

ARCHITECTURAL COATINGS-PARKING (ONSITE)

								Parking Paved Area					
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Hours per Workday**	**Coating Type**	**Parking Area (SF)**	**VOC Content (g/L)**	**Parking EF (lb VOC/SF)**	**% of Parking Area Painted**	**Parking Area to Be Painted (SF)**	**Total ROG Emissions (tons)**	**Daily ROG Emissions (lb/day)**
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	Parking	-	100	0.00464	6%	-	-	-
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	Parking	-	100	0.00464	6%	-	-	-
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	Parking	-	100	0.00464	6%	-	-	-
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	Parking	-	100	0.00464	6%	-	-	-
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	Parking	38920	100	0.00464	6%	2335	0.0054	0.1933
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	Parking	-	100	0.00464	6%	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	Parking	-	100	0.00464	6%	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	Parking	-	100	0.00464	6%	-	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	Parking	-	100	0.00464	6%	-	-	-
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	Parking	-	100	0.00464	6%	-	-	-
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	Parking	-	100	0.00464	6%	-	-	-
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	Parking	-	100	0.00464	6%	-	-	-
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	Parking	-	100	0.00464	6%	-	-	-
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	Parking	41554	100	0.00464	6%	2493	0.0058	0.2181
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	Parking	-	100	0.00464	6%	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	Parking	-	100	0.00464	6%	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	Parking	-	100	0.00464	6%	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	Parking	-	100	0.00464	6%	-	-	-
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	Parking	185128	100	0.00464	6%	11108	0.0257	0.9716
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	Parking	-	100	0.00464	6%	-	-	-
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	Parking	-	100	0.00464	6%	-	-	-
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	Parking	-	100	0.00464	6%	-	-	-
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	Parking	-	100	0.00464	6%	-	-	-
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	Parking	-	100	0.00464	6%	-	-	-
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	Parking	-	100	0.00464	6%	-	-	-
MSF-Grading	3/1/2032	7/31/2032	6	132	10	Parking	-	100	0.00464	6%	-	-	-
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	Parking	-	100	0.00464	6%	-	-	-
MSF-Paving	12/1/2034	1/30/2035	6	52	10	Parking	385070	100	0.00464	6%	23104	0.0536	2.0598
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	Parking	-	100	0.00464	6%	-	-	-
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	Parking	-	100	0.00464	6%	-	-	-
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	Parking	-	100	0.00464	6%	-	-	-
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	Parking	-	100	0.00464	6%	-	-	-
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	Parking	-	100	0.00464	6%	-	-	-

Notes:

1. VOC content values based on CalEEMod default values.
2. Emissions calculated in accordance with CalEEMod methodology.

Sepulveda Transit Corridor Project - ALTERNATIVE 4

PAVING OFF-GASSING (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	Paved Area (SF)	Paved Area (Acres)	Paved Area (Acres) / day	Off-Gassing EF (lb/acre)[1]	Daily ROG Emissions (lb/day)[2]	Total ROG Emissions (tons)[2]
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	9/1/2028	11/30/2028	6	78	10	-	-	-	2.62	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	12/1/2028	3/31/2029	6	104	10	-	-	-	2.62	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	4/1/2029	7/31/2029	6	104	10	-	-	-	2.62	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	8/1/2029	9/26/2029	6	49	10	-	-	-	2.62	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	9/27/2029	1/30/2030	7	126	20	-	-	-	2.62	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2030	3/31/2032	7	791	20	-	-	-	2.62	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	4/1/2032	6/30/2032	7	91	20	-	-	-	2.62	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	2/13/2030	4/13/2032	7	791	20	-	-	-	2.62	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	4/14/2032	9/30/2033	7	535	20	-	-	-	2.62	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	10/1/2033	5/15/2034	7	227	20	-	-	-	2.62	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Demolition/Site Preparation	7/1/2027	11/30/2027	6	131	10	-	-	-	2.62	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box SOE	12/1/2027	3/31/2028	6	105	10	-	-	-	2.62	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Excavation	4/1/2028	7/31/2028	6	104	10	-	-	-	2.62	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Launch Box Concrete Work	8/1/2028	9/30/2028	6	53	10	-	-	-	2.62	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	-	-	-	2.62	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	11/25/2032	7	1395	20	-	-	-	2.62	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-TBM Demobilization	11/26/2032	2/23/2033	7	90	20	-	-	-	2.62	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Fill	3/1/2029	12/31/2032	7	1402	20	-	-	-	2.62	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Invert Slabs, Walkways, Plenum	9/3/2032	8/31/2034	7	728	20	-	-	-	2.62	-	-
Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)-Trackwork/Systems Installation	9/1/2034	7/26/2035	7	329	20	-	-	-	2.62	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	6/1/2029	1/27/2030	6	206	20	-	-	-	2.62	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	1/28/2030	10/30/2030	6	237	20	-	-	-	2.62	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	2/28/2030	11/30/2032	6	863	20	-	-	-	2.62	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	6/1/2032	12/31/2032	6	184	20	-	-	-	2.62	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	11/20/2030	1/15/2031	6	49	20	-	-	-	2.62	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	1/16/2031	1/4/2034	6	930	20	-	-	-	2.62	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	1/5/2034	2/3/2034	6	26	20	-	-	-	2.62	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	2/4/2034	11/3/2034	6	234	20	-	-	-	2.62	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	11/4/2034	5/3/2035	6	155	20	-	-	-	2.62	-	-
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	8/18/2032	8/15/2033	6	311	20	1246080	28.6	0.09	2.62	0.2410	0.0375
VTA Station Staging Area-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	-	-	-	2.62	-	-
VTA Station Staging Area-Laydown Activity	7/1/2030	4/6/2035	6	1493	10	-	-	-	2.62	-	-
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	-	-	-	2.62	-	-
Metro E Line Stn_U-Alt4-Support of Excavation	5/1/2028	2/28/2029	6	261	20	-	-	-	2.62	-	-
Metro E Line Stn_U-Alt4-Box Excavation	3/1/2029	2/26/2030	6	311	20	-	-	-	2.62	-	-
Metro E Line Stn_U-Alt4-TBM Pass Through-Maintenance	6/1/2030	7/31/2030	6	52	20	-	-	-	2.62	-	-
Metro E Line Stn_U-Alt4-Station Structural Concrete	2/27/2030	2/25/2032	6	625	20	-	-	-	2.62	-	-
Metro E Line Stn_U-Alt4-Fit Out and Completion	8/28/2031	2/27/2034	6	784	20	-	-	-	2.62	-	-
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	1/1/2034	2/27/2034	6	49	20	58043	1.3	0.03	2.62	0.0712	0.0017
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	8/1/2028	3/28/2029	6	206	20	-	-	-	2.62	-	-
Santa Monica Stn_U-Alt4-Support of Excavation	3/29/2029	1/31/2030	6	265	20	-	-	-	2.62	-	-
Santa Monica Stn_U-Alt4-Box Excavation	9/29/2029	9/29/2030	6	313	20	-	-	-	2.62	-	-
Santa Monica Stn_U-Alt4-TBM Pass Through-Maintenance	1/1/2031	2/28/2031	6	51	20	-	-	-	2.62	-	-
Santa Monica Stn_U-Alt4-Station Structural Concrete	9/30/2030	9/21/2032	6	620	20	-	-	-	2.62	-	-
Santa Monica Stn_U-Alt4-Fit Out and Completion	6/1/2032	11/21/2034	6	775	20	-	-	-	2.62	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	3/1/2029	10/29/2029	6	208	20	-	-	-	2.62	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	10/30/2029	8/31/2030	6	263	20	-	-	-	2.62	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	4/29/2030	4/28/2031	6	313	20	-	-	-	2.62	-	-
D Line Wilshire-Westwood Stn_U-Alt4-TBM Pass Through-Maintenance	8/1/2031	9/30/2031	6	52	20	-	-	-	2.62	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	4/29/2031	1/21/2033	6	544	20	-	-	-	2.62	-	-
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	12/24/2032	6/28/2035	6	786	20	-	-	-	2.62	-	-
UCLA Stn_U-Alt4-Demolition/Site Preparation	7/1/2028	2/26/2029	6	206	20	-	-	-	2.62	-	-
UCLA Stn_U-Alt4-Support of Excavation	2/27/2029	4/30/2030	6	367	20	-	-	-	2.62	-	-
UCLA Stn_U-Alt4-Box Excavation	8/1/2029	11/27/2030	6	415	20	-	-	-	2.62	-	-
UCLA Stn_U-Alt4-Structural Concrete Part 1	11/28/2030	3/30/2032	6	419	20	-	-	-	2.62	-	-
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	12/28/2032	12/22/2033	7	360	20	-	-	-	2.62	-	-
UCLA Stn_U-Alt4-Fit Out and Completion	5/27/2033	11/15/2035	6	774	20	-	-	-	2.62	-	-
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	10/1/2031	3/30/2032	6	156	20	-	-	-	2.62	-	-
Ventura Blvd Stn_A-Alt4-Foundations and Columns	3/31/2032	1/31/2033	6	263	20	-	-	-	2.62	-	-
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	2/1/2033	7/28/2033	6	153	20	-	-	-	2.62	-	-
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	8/5/2033	4/6/2035	6	523	20	-	-	-	2.62	-	-
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	2/1/2035	4/6/2035	6	56	20	38920	0.9	0.02	2.62	0.0418	0.0012

Sepulveda Transit Corridor Project - ALTERNATIVE 4

PAVING OFF-GASSING (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	Paved Area (SF)	Paved Area (Acres)	Paved Area (Acres) / day	Off-Gassing EF (lb/acre)[1]	Daily ROG Emissions (lb/day)[2]	Total ROG Emissions (tons)[2]
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	2/1/2031	7/29/2031	6	153	20	-	-	-	2.62	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	7/30/2031	3/31/2032	6	211	20	-	-	-	2.62	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	4/1/2032	8/30/2032	6	130	20	-	-	-	2.62	-	-
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	10/7/2032	8/7/2034	6	574	20	-	-	-	2.62	-	-
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	6/1/2030	11/28/2030	6	155	20	-	-	-	2.62	-	-
Sherman Way Stn_A-Alt4-Foundations and Columns	11/29/2030	4/30/2031	6	131	20	-	-	-	2.62	-	-
Sherman Way Stn_A-Alt4-Bent Cap Installation	5/1/2031	1/29/2032	6	235	20	-	-	-	2.62	-	-
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	2/10/2032	11/14/2033	6	552	20	-	-	-	2.62	-	-
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	9/14/2033	11/14/2033	6	53	20	41554	1.0	0.02	2.62	0.0472	0.0012
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	7/1/2029	12/27/2029	6	154	20	-	-	-	2.62	-	-
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	12/28/2029	5/31/2030	6	133	20	-	-	-	2.62	-	-
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	6/1/2030	2/27/2031	6	233	20	-	-	-	2.62	-	-
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	3/17/2031	1/17/2033	6	577	20	-	-	-	2.62	-	-
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	11/17/2032	1/17/2033	6	53	20	185128	4.2	0.08	2.62	0.2101	0.0056
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	-	-	-	2.62	-	-
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	-	-	-	2.62	-	-
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	-	-	-	2.62	-	-
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	-	-	-	2.62	-	-
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	-	-	-	2.62	-	-
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	-	-	-	2.62	-	-
MSF-Grading	3/1/2032	7/31/2032	6	132	10	-	-	-	2.62	-	-
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	-	-	-	2.62	-	-
MSF-Paving	12/1/2034	1/30/2035	6	52	10	385070	8.8	0.17	2.62	0.4454	0.0116
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	-	-	-	2.62	-	-
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	-	-	-	2.62	-	-
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	-	-	-	2.62	-	-
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	-	-	-	2.62	-	-
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	-	-	-	2.62	-	-

Notes:

1. Emission factor based on CalEEMod default value.
2. Emissions calculated in accordance with CalEEMod methodology.

Sepulveda Transit Corridor Project - ALTERNATIVE 4

CONCRETE BATCH PLANT FUGITIVE DUST (ONSITE)

								Batch Plant EF (lb/CY)						Daily Emissions (lb/day)						Total Emissions (tons)					
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Hours per Workday**	**Concrete Required (CY)**	**Concrete Throughput (CY/day)**	**PM_{10} Fugitive**	**PM_{10} Exhaust**	**PM_{10} Total**	**$PM_{2.5}$ Fugitive**	**$PM_{2.5}$ Exhaust**	**$PM_{2.5}$ Total**	**PM_{10} Fugitive**	**PM_{10} Exhaust**	**PM_{10} Total**	**$PM_{2.5}$ Fugitive**	**$PM_{2.5}$ Exhaust**	**$PM_{2.5}$ Total**	**PM_{10} Fugitive**	**PM_{10} Exhaust**	**PM_{10} Total**	**$PM_{2.5}$ Fugitive**	**$PM_{2.5}$ Exhaust**	**$PM_{2.5}$ Total**
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	767,538	534	0.0172	-	0.0172	0.0028	-	0.0028	9.17	-	9.17	1.48	-	1.48	6.5820	-	6.5820	1.0616	-	1.0616

	Emission Factors-Controlled (lb pollutant/CY Concrete)[5]	
Batch Plant Process	**PM_{10}**	**$PM_{2.5}$**
Aggregate Delivery to Ground Storage[1]	0.0031	5.00E-04
Sand Delivery to Ground Storage[1]	0.0007	1.13E-04
Aggregate Transfer to Conveyor[1]	0.0031	5.00E-04
Sand Transfer to Conveyor[1]	0.0007	1.13E-04
Aggregate Transfer to Elevated Storage[1]	0.0031	5.00E-04
Sand Transfer to Elevated Storage[1]	0.0007	1.13E-04
Cement Delivery to Silo[1]	0.0001	1.61E-05
Cement Supplement Delivery to Silo[1]	0.0003	4.84E-05
Weigh Hopper Loading[1]	0.0038	6.13E-04
Central Mixing[2]	0.0016	2.50E-04
Total EF	**0.0172**	**0.0028**

Uncontrolled Truck Mixing EFs[4]

PM_{10}	**$PM_{2.5}$**	**$PM_{2.5}/PM_{10}$**
0.310	0.050	16%

PM2.5 EF is 16% of PM10 EF

	lb PM10 /ton of cement and cement supplement[5]	**Conversion Factor**	**lb PM10/CY Concrete**
Central Mixer EF[3]	0.0055	0.282	0.0016

Notes:

1. USEPA 2006, AP-42-11.12 Concrete Batching, Table 11.12-6
2. USEPA 2006, AP-42-11.12 Concrete Batching, Table 11.12-2
3. USEPA 2006, AP-42-11.12-Page 11.12-9
4. USEPA 2006, AP-42-11.12 Concrete Batching, Table 11.12-3-Based on Uncontrolled EFs
5. Assuming Mixer Loading will have dust controls, thus, the EF is based on a controlled EF for mixer loading (central mix).

Sepulveda Transit Corridor Project - ALTERNATIVE 4

CONCRETE BATCH PLANT WIND BLOWN DUST FROM STORAGE PILES (ONSITE)

										Storage Pile EF (lb/acre/day)						Daily Emissions (lb/day)						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	# of Storage Piles[3]	Storage Pile Area (acres)	Storage Pile Height (ft)	Total Storage Pile Area (acres)	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total
Precast Yard-Alt 4 Concrete Activity	6/1/2028	12/31/2032	6	1436	20	4	0.50	32	2	0.77	-	0.77	0.12	-	0.12	1.53	-	1.53	0.23	-	0.23	1.10	-	1.10	0.17	-	0.17

Wind Blown Emission Factors[1]	PM_{10}	$PM_{2.5}$
EF (lb/day/acre)	***0.77***	***0.12***
s (silt content of material (weight %))	2.6	2.6
f (% of time the unobstructed wind speed is greater than 12 mph (5.36 m/s) at the mean pile height)[2]	7.8	7.8

Emission Factor Equations[1]

$$E_{PM10} = 0.85\ (s/1.5)\ (f/15)$$
$$E_{PM2.5} = 0.13\ (s/1.5)\ (f/15)$$

**Assuming mean pile height is equivalent to anemometer height of meteorological station.*

1. Countess Environmental, WRAP Fugitive Dust Handbook-Section 9.3

2. f for the project is based on the wind speed class distribution for the Van Nuys Meteorological Station. At this station, 7.8% of wind speeds were greater than 5.70 m/s (12.7 mph) throughout the meteorological period (2012-2016). Although f is based on wind speeds of 12 mph, the wind dataset only had categories for 5.7 m/s and greater. The meteorological site's anemometer height is approximately 10 meters (32 feet), therefore, an 'f' of 7.8% is valid for a storage pile height of up to 32 feet.

3. The number of storage piles assumes 2 piles for sand and 2 piles for coarse aggregate.

Sepulveda Transit Corridor Project - ALTERNATIVE 4

Tunneling Electricity Consumption

Mining Site	Alternative	Approximate Tunnel Length (mile)	Total Power Rating for TBM and Associated Tunneling Systems (MW)[1]	Tunneling Duration (days)[2]	Avg Daily Usage (hours/day)	Total Tunneling Activity Duration (hours)	Electricity Consumption (MWh)	LADWP CO_2e Intensity Factor (lb/MWh)[3]	Total GHG Emissions ($MTCO_2e$)
Segment #1: Reach 1 Tunnel (Southern Terminus to UCLA) (Underground)	Alt 4 & Alt 5	3.0	9.00	791	20	15820	142380	567	36,618.31
Segment #2: Reach 2 Tunnel (UCLA to North Portal [Del Gado Dr]) (Underground)	Alt 4 Only	5.7	9.00	1,395	20	27900	251100	567	64,579.70
						Total	**393,480**	567	**101,198.0**

Notes:

1. Power rating data for TBM and tunneling systems ranged from 8,000 kW to 9,000 kW, conservatively using high-end of range.
2. Tunneling duration and daily usage is based on data for the "TBM Tunneling/Precast Liners" phase for each segment from the construction datasheet.
3. CO_2e intensity factor based on LADWP's 2022 Power Mix Content Label.

lb = pound

MWh = Megawatt-hours

$MTCO_2e$ = metric tons of carbon dioxide equivalent

Sepulveda Transit Corridor Project - ALTERNATIVE 4

Construction Electricity Consumption-Portable Offices

Electricity Consumption for 1 Portable Office[1,2]

			Annual		Monthly	
Land Use Type	Land Use Subtype in CalEEMod	Portable Office Area (SF)	Annual Electricity Consumption per Portable Office (kWh/year)	Annual GHG Emissions per Portable Office ($MTCO_2e$/year)	Monthly Electricity Consumption per Portable Office (kWh/month)	Monthly GHG Emissions per Portable Office ($MTCO_2e$/month)
Commercial	General Office Building	720	11,292.16	2.90	941.01	0.24

Construction GHG Emissions per Project Alternative[3]

Alternative	Number of Portable Offices	Monthly GHG Emissions per Portable Office ($MTCO_2e$/month)	Total Construction Duration (months)	Total GHG Emissions ($MTCO_2e$)
Alternative 4	3	0.24	121.7	88.4

Construction Electricity Consumption per Project Alternative[3]

Alternative	Number of Portable Offices	Monthly Electricity Consumption per Portable Office (kWh/month)	Total Construction Duration (months)	Total Electricity Consumption (kWh)	Total Electricity Consumption (MWh)
Alternative 4	3	941.01	121.7	343657.99	343.66

Notes:

1. CalEEMod was used to estimate electricity consumption from portable offices.
2. Monthly values estimated by dividing annual values by 12 months.
3. It was assumed each Project Alternative would have 3 portable offices used throughout the construction duration.

SF = square feet

kWh = kilowatt-hour

MWh = Megawatt-hour

$MTCO_2e$ = metric tons of carbon dioxide equivalent

Construction Localized Emissions Analysis

Alternative 4 Construction-Valley (North) Components

Maximum Daily Localized Emissions

Component ID	Component Description	Daily Emissions (lb/day)[1] NOX	CO	PM10	PM2.5
Segment 2-Reach 2 Tunnel Prep_6_10	Segment 2-Reach 2 Tunnel Prep Construction-6 Days per week/10 Hours per day	-	-	-	-
Segment 2-Reach 2 Tunnel_7_20	Segment 2-Reach 2 Tunnel Construction-7 Days per week/20 Hours per day	23.6	64.3	9.0	1.1
Segment 3-Aerial Guideway _6_20	Segment 3-Aerial Guideway Construction-6 Days per week/20 Hours per day	44.4	200.5	1.2	0.7
VTA Station Staging Area_6_10	VTA Staging Area Construction-6 Days per week/10 Hours per day	3.2	12.0	0.3	0.1
Ventura Blvd Stn_6_20	Ventura Blvd Stn Construction-6 Days per week/20 Hours per day	8.2	57.1	0.7	0.3
Sepulveda-Metro G Line Stn_6_20	Metro G Line Stn Construction-6 Days per week/20 Hours per day	22.5	77.3	0.6	0.3
Sherman Way Stn_6_20	Sherman Way Stn Construction-6 Days per week/20 Hours per day	22.5	77.3	0.6	0.4
Metrolink Van Nuys Stn_6_20	Metrolink Van Nuys Stn Construction-6 Days per week/20 Hours per day	28.1	91.5	0.7	0.4
TPSS 11-Sta 1260_6_10	TPSS 11 Construction-6 Days per week/10 Hours per day	-	-	-	-
MSF_6_10	MSF Construction-6 Days per week/10 Hours per day	3.0	15.4	14.9	5.9
Precast_6_20	Precast Facility Construction-6 Days per week/20 Hours per day	16.6	48.6	13.4	2.4
	Component Name	**NOX**	**CO**	**PM10**	**PM2.5**
	Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)	23.6	64.3	9.0	1.1
	Segment 3-Aerial Guideway (North Portal to MSF)	44.4	200.5	1.2	0.7
	VTA Station Staging Area	3.2	12.0	0.3	0.1
	Ventura Blvd Station	8.2	57.1	0.7	0.3
	Sepulveda-Metro G Line Station	22.5	77.3	0.6	0.3
	Sherman Way Station	22.5	77.3	0.6	0.4
	Metrolink Van Nuys Station	28.1	91.5	0.7	0.4
	TPSS 11-Sta 1260	-	-	-	-
	MSF	3.0	15.4	14.9	5.9
	Precast Yard	16.6	48.6	13.4	2.4
	Components In Proximity to Each Other				
	Segment 2-Reach 2 + Ventura Blvd Station	31.7	121.4	9.7	1.4
	Segment 3-Aerial Guideway + Metrolink Van Nuys Station + TPSS 11 + MSF + Precast	92.2	356.0	30.2	9.4
	Peak Daily Localized Emissions[2]	**92.2**	**356.0**	**30.2**	**9.4**
	SCAQMD Localized Significance Threshold[3]	114	786	7	4
	Exceeds Threshold?	No	No	Yes	Yes

Construction Localized Emissions Analysis

Alternative 4 Construction-Westside (South) Components

Maximum Daily Localized Emissions

Component ID	Component Description	Daily Emissions (lb/day)[1] NOX	CO	PM10	PM2.5
Segment 1-Reach 1 Prep_6_10	Segment 1-Reach 1 Tunnel Prep Construction-6 Days per week/10 Hours per day	-	-	-	-
Segment 1-TBM Demob_7_20	Segment 1-Reach 1 TBM Demob-7 Days per week/20 Hours per day	-	-	-	-
Segment 1-Reach 1 Tunnel_7_20	Segment 1-Reach 1 Tunnel Construction-7 Days per week/20 Hours per day	13.4	53.8	8.0	1.0
Segment 2-TBM Demob_7_20	Segment 2-TBM Demob Construction-7 Days per week/20 Hours per day	-	-	-	-
Metro E Line Stn_6_20	Metro E Line Stn Construction-6 Days per week/20 Hours per day	27.3	33.2	0.9	0.3
Santa Monica Stn_6_20	Santa Monica Stn Construction-6 Days per week/20 Hours per day	15.4	80.4	2.6	0.4
D Line Wilshire-Westwood Stn_6_20	D Line Wilshire-Westwood Stn Construction-6 Days per week/10 Hours per day	17.8	47.1	4.7	0.8
UCLA Stn_6_20	UCLA Stn A Construction-6 Days per week/20 Hours per day	15.3	80.5	3.3	0.7
UCLA Stn_7_20	UCLA Stn B Construction-7 Days per week/20 Hours per day	-	-	-	-
	Component Name				
	Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)	13.4	53.8	8.0	1.0
	Segment 2-Reach 2 Tunnel (North Portal to UCLA Stn)	-	-	-	-
	Metro E Line Station	27.3	33.2	0.9	0.3
	Santa Monica Station	15.4	80.4	2.6	0.4
	D Line Wilshire-Westwood Station	17.8	47.1	4.7	0.8
	UCLA Station	15.3	80.5	3.3	0.7
	Components In Proximity to Each Other				
	Not Applicable				
	Peak Daily Localized Emissions[2]	**27.3**	**80.5**	**8.0**	**1.0**
	SCAQMD Localized Significance Threshold[4]	147	827	6	4
	Exceeds Threshold?	No	No	Yes	No

Notes:

1. Daily emissions for each construction component represent the contribution to the maximum daily localized emissions in the Valley or Westside.
2. Peak daily emissions are based on components in proximity to each other that may affect similar nearby receptors.
3.LST values are based on a 2-acre site with a 25-meter receptor distance in SRA 7 East San Fernando Valley.
4.LST values are based on a 2-acre site with a 25-meter receptor distance in SRA 2 Northwest Coastal LA County.

Appendix A-4.2: Alternative 4 Operational Emissions

Operations Regional and Localized Daily Criteria Pollutant Emission Summaries

Daily Regional (Onsite + Offsite) Operational AQ Emissions

Alternative 4 (2045) Compared to No Project Alternative (2045)

	Daily Emissions (lb/day)									
Source Category	**ROG**	**NO_X**	**CO**	**SO_X**	**PM_{10} Fugitive**	**PM_{10} Exhaust**	**PM_{10} Total**	**$PM_{2.5}$ Fugitive**	**$PM_{2.5}$ Exhaust**	**$PM_{2.5}$ Total**
MSF Area Sources[1]	7.87	0.10	11.69	0.00	0.00	0.02	0.02	0.00	0.02	0.02
Stations Area Sources[2]	6.89	0.35	41.10	0.00	0.00	0.07	0.07	0.00	0.06	0.06
Mobile-VMT Analysis	8,975.02	88,807.17	622,422.25	3,482.19	406,306.06	2,044.05	408,350.11	103,410.97	1,933.36	105,344.33
Mobile-Employee Travel	0.52	1.19	7.39	0.03	3.88	0.02	3.90	0.99	0.02	1.01
Emergency Generators[3]	3.85	17.22	9.82	0.02	0.00	0.57	0.57	0.00	0.57	0.57
Alternative 4 Total Emissions	**8,994.15**	**88,826.02**	**622,492.25**	**3,482.25**	**406,309.94**	**2,044.73**	**408,354.67**	**103,411.96**	**1,934.02**	**105,345.98**
No Project Alternative Emissions[5]	8,987.16	88,927.26	623,263.93	3,486.90	406,855.50	2,046.81	408,902.31	103,550.81	1,935.97	105,486.79
Alternative 4 Net Change in Emissions	**7.00**	**-101.24**	**-771.68**	**-4.65**	**-545.55**	**-2.08**	**-547.64**	**-138.85**	**-1.96**	**-140.81**
SCAQMD Regional Significance Thresholds	55	55	550	150	N/A	N/A	150	N/A	N/A	55
Exceeds Threshold?	**No**	**No**	**No**	**No**			**No**			**No**

Notes:

MSF = Maintenance and Storage Facility

N/A = Not Applicable, no threshold for this pollutant.

1. Total emissions from MSF.
2. Total emissions from all stations.
3. The MSF would have 1 emergency generator. Alternative 4 has four underground stations and backup power would be supplied by a battery system, no generators required.
4. In accordance with City of LA Municipal Code, all new buildings would be required to have all electric appliances for water and space heating, therefore no natural gas would be consumed during operations.
5. No Project Alternative emissions are related to mobile sources.

Daily Regional (Onsite + Offsite) Operational AQ Emissions

Alternative 4 (2045) Compared to Baseline (2021)

	Daily Emissions (lb/day)									
Source Category	**ROG**	**NO_X**	**CO**	**SO_X**	**PM_{10} Fugitive**	**PM_{10} Exhaust**	**PM_{10} Total**	**$PM_{2.5}$ Fugitive**	**$PM_{2.5}$ Exhaust**	**$PM_{2.5}$ Total**
MSF Area Sources[1]	7.87	0.10	11.69	0.00	0.00	0.02	0.02	0.00	0.02	0.02
Stations Area Sources[2]	6.89	0.35	41.10	0.00	0.00	0.07	0.07	0.00	0.06	0.06
Mobile-VMT Analysis	8,975.02	88,807.17	622,422.25	3,482.19	406,306.06	2,044.05	408,350.11	103,410.97	1,933.36	105,344.33
Mobile-Employee Travel	0.52	1.19	7.39	0.03	3.88	0.02	3.90	0.99	0.02	1.01
Emergency Generators[3]	3.85	17.22	9.82	0.02	0.00	0.57	0.57	0.00	0.57	0.57
Alternative 4 Total Emissions	**8,994.15**	**88,826.02**	**622,492.25**	**3,482.25**	**406,309.94**	**2,044.73**	**408,354.67**	**103,411.96**	**1,934.02**	**105,345.98**
Baseline Emissions[6]	27,490.34	222,015.82	1,219,500.95	3,920.27	325,836.60	3,379.36	329,215.96	82,877.61	3,173.58	86,051.19
Alternative 4 Net Change in Emissions	**-18,496.19**	**-133,189.81**	**-597,008.71**	**-438.02**	**80,473.34**	**-1,334.63**	**79,138.71**	**20,534.35**	**-1,239.57**	**19,294.78**
SCAQMD Regional Significance Thresholds	55	55	550	150	N/A	N/A	150	N/A	N/A	55
Exceeds Threshold?	**No**	**No**	**No**	**No**			**Yes**			**Yes**

Notes:

MSF = Maintenance and Storage Facility

N/A = Not Applicable, no threshold for this pollutant.

1. Total emissions from MSF.
2. Total emissions from all stations.
3. The MSF would have 1 emergency generator. Alternative 4 has four underground stations and backup power would be supplied by a battery system, no generators required.
4. In accordance with City of LA Municipal Code, all new buildings would be required to have all electric appliances for water and space heating, therefore no natural gas would be consumed during operations.
5. It should be noted that the exceedances for PM10 and PM2.5 are a function of increased fugitive dust emissions related directly to growth in VMT from Baseline 2019 to Future 2045. Dust emission factors for tire wear, brake wear, and paved roads stay relatively constant over the 2019-2045 timeframe compared to engine process emissions factors which drastically decrease over this same time period due to compliance with vehicle emission standards.
6. Baseline emissions are related to mobile sources.

Daily Localized (Onsite) Operational AQ Emissions

Alternative 4 (2045)

	Daily Emissions (lb/day)			
Source Category	**NO_X**	**CO**	**PM_{10} Total**	**$PM_{2.5}$ Total**
MSF Area Sources[1]	0.10	11.69	0.02	0.02
Stations Area Sources[2]	0.35	41.10	0.07	0.06
Emergency Generators[3]	17.22	9.82	0.57	0.57
Alternative 4 Total Emissions	**17.66**	**62.61**	**0.66**	**0.64**
SCAQMD Localized Significance Thresholds[4]	172	1,434	3	2
Exceeds Threshold?	**No**	**No**	**No**	**No**

Notes:

MSF = Maintenance and Storage Facility

N/A = Not Applicable, no threshold for this pollutant.

1. Total emissions from main MSF and e-Bus MSF.

2. Total emissions from all stations.

3. The MSF would have 1 emergency generator. Alternative 4 has four underground stations and backup power would be supplied by a battery system, no generators required.

4. The components of the alternative (MSF and stations) are located at different locations along the alternative alignment, therefore it was conservatively assumed that the total localized emissions from all components would occur within a 5-acre site, although in reality, the total acreage of all these components is far greater than 5 acres. The LSTs were developed for sites less than 5 acres, however, the LSTs were used to conduct a screening-level analysis for projects greater than 5 acres to determine if further refined analysis of local air quality impacts is required. Therefore, the LSTs for a 5-acre site were used to evaluate the alternative's local impacts. The localized analysis uses LST values based on a 5-acre site with a receptor distance of 25 meters. Also, because the components are located in different Source Receptor Areas (#2: North Coastal LA County & #7 East San Fernando Valley), the lowest LST values (i.e., strictest thresholds) between these SRAs were selected for each pollutant.

5. In accordance with City of LA Municipal Code, all new buildings would be required to have all electric appliances for water and space heating, therefore no natural gas would be consumed during operations.

6. In accordance with SCAQMD methodology, localized emissions do not include offsite sources such as mobile sources.

Localized Significance Threshold (LST) Values

		Operations LST Values for 5-Acre Site with 25 meter Receptor Distance			
Source Receptor Area (SRA) #	**SRA Name**	**NO_X**	**CO**	**PM_{10}**	**$PM_{2.5}$**
2	Northwest Coastal LA County	221	1,531	3	2
7	East San Fernando Valley	172	1,434	4	2
	Minimum LST Value	**172**	**1,434**	**3**	**2**

The components of the alternative (MSF and stations) are located at different locations along the alternative alignment, therefore it was conservatively assumed that the total localized emissions from all components would occur within a 5-acre site, although in reality, the total acreage of all these components is far greater than 5 acres. The LSTs were developed for sites less than 5 acres, however, the LSTs were used to conduct a screening-level analysis for projects greater than 5 acres to determine if further refined analysis of local air quality impacts is required. Therefore, the LSTs for a 5-acre site were used to evaluate the alternative's local impacts. The localized analysis uses LST values based on a 5-acre site with a receptor distance of 25 meters. Also, because the components are located in different Source Receptor Areas (#2: North Coastal LA County & #7 East San Fernando Valley), the lowest LST values (i.e., strictest thresholds) between these SRAs were selected for each pollutant.

Operations Annual Greenhouse Gas Emission Summaries

Annual GHG Emissions

Alternative 4 (2045) Compared to No Project Alternative (2045)

	Annual GHG Emissions ($MTCO_2e/yr$) by Component						
Source Category	**Track Alignment Electricity[1]**	**MSF[2]**	**Stations[3]**	**VMT Analysis**	**Employee Travel**	**Amortized Construction[4]**	**Total**
Area		5.47	19.23				24.71
Electricity	5,339.41	218.40	150.56				5,708.37
Mobile				57,111,500.02	557.44		57,112,057.47
Water		84.86	0.10				84.97
Waste		78.32					78.32
Refrigerants		0.08					0.08
Emergency Generators		44.82	0.00				44.82
Amortized Construction						9,134.22	9,134.22
Alternative 4 Total Emissions							57,127,132.9
No Project Alternative Emissions				**57,188,729.73**			**57,188,729.73**
Alternative 4 Net Change in Emissions							**-61,596.78**

Notes:

1. Electricity consumption values based on STCP's *Energy Consumption During Operations Report (HRT.PH3.3.6.10.k)*. Accounts for electricity consumption from all components (tracks, TPSS, stations, MSF, etc.).
2. Accounts for emissions related to MSF.
3. Accounts for emissions related to all stations.
4. Total construction emissions were amortized over the design lifetime of Alternative 4, which would be 100 years.
5. In accordance with City of LA Municipal Code, all new buildings would be required to have all electric appliances for water and space heating, therefore no natural gas would be consumed during operations.

6. No Project Alternative emissions are related to mobile sources.

Annual GHG Emissions

Alternative 4 (2045) Compared to Baseline (2021)

	Annual GHG Emissions ($MTCO_2e/yr$) by Component						
Source Category	**Track Alignment Electricity[1]**	**MSF[2]**	**Stations[3]**	**VMT Analysis**	**Employee Travel**	**Amortized Construction[4]**	**Total**
Area		5.47	19.23				24.71
Electricity	5,339.41	218.40	150.56				5,708.37
Mobile				57,111,500.02	557.44		57,112,057.47
Water		84.86	0.10				84.97
Waste		78.32					78.32
Refrigerants		0.08					0.08
Emergency Generators		44.82	0.00				44.82
Amortized Construction						9,134.22	9,134.22
Alternative 4 Total Emissions							57,127,132.9
Baseline Emissions				**64,691,321.96**			**64,691,321.96**
Alternative 4 Net Change in Emissions							**-7,564,189.02**

Notes:

1. Electricity consumption values based on STCP's *Energy Consumption During Operations Report (HRT.PH3.3.6.10.k)*. Accounts for electricity consumption from all components (tracks, TPSS, stations, MSF, etc.).
2. Accounts for emissions related to MSF.
3. Accounts for emissions related to all stations.
4. Total construction emissions were amortized over the design lifetime of Alternative 4, which would be 100 years.
5. In accordance with City of LA Municipal Code, all new buildings would be required to have all electric appliances for water and space heating, therefore no natural gas would be consumed during operations.

6. Baseline emissions are related to mobile sources.

Mobile Emissions

Mobile Emissions-Alternative 4 (2045) Compared to No Project Alternative (2045)

Scenario	Analysis Year	Daily VMT	Annual VMT[2]	Daily Emissions (lb/day)												
				ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
No Project Alternative-VMT Analysis[1]	2045	568,557,200	197,289,348,400	8,987.2	88,927.3	623,263.9	3,486.9	406,855.5	2,046.8	408,902.3	103,550.8	1,936.0	105,486.8	358,320,962.1	3,957.5	16,514.6
Alternative 4-VMT Analysis1	2045	567,789,400	197,022,921,800	8,975.0	88,807.2	622,422.2	3,482.2	406,306.1	2,044.0	408,350.1	103,411.0	1,933.4	105,344.3	357,837,072.7	3,952.1	16,492.3
	Net Change	-767,800	-266,426,600	**-12.1**	**-120.1**	**-841.7**	**-4.7**	**-549.4**	**-2.8**	**-552.2**	**-139.8**	**-2.6**	**-142.5**	**-483,889.5**	**-5.3**	**-22.3**
Alternative 4-VMT from Employee Travel3	2045	5,423	1,881,642	0.5	1.2	7.4	0.0	3.9	0.02	3.9	1.0	0.02	1.0	3,486.2	0.1	0.2
			Alternative 4 Net Mobile Emissions	**-11.6**	**-118.9**	**-834.3**	**-4.7**	**-545.6**	**-2.7**	**-548.3**	**-138.9**	**-2.6**	**-141.4**	**-480,403.3**	**-5.3**	**-22.1**

Notes:

VMT = vehicle miles traveled

1. Daily VMT values from Project Traffic Study.

2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.

3. Employee VMT based on number of employees, daily trips, and CalEEMod trip length for Non-Residential Home-Work Trip.

Mobile Emissions-Alternative 4 (2045) Compared to No Project Alternative (2045)

				Annual Emissions (tons/year)										Annual Emissions (metric tons)			
Scenario	**Analysis Year**	**Daily VMT**	**Annual VMT[2]**	**ROG**	**NO_X**	**CO**	**SO_X**	**PM_{10} Fugitive**	**PM_{10} Exhaust**	**PM_{10} Total**	**$PM_{2.5}$ Fugitive**	**$PM_{2.5}$ Exhaust**	**$PM_{2.5}$ Total**	**CO_2**	**CH_4**	**N_2O**	**CO_2e**
No Project Alternative-VMT Analysis[1]	2045	568,557,200	197,289,348,400	1,559.3	15,428.9	108,136.3	605.0	70,589.4	355.1	70,944.6	17,966.1	335.9	18,302.0	56,398,551.2	622.9	2,599.3	57,188,729.7
Alternative 4-VMT Analysis1	2045	567,789,400	197,022,921,800	1,557.2	15,408.0	107,990.3	604.2	70,494.1	354.6	70,848.7	17,941.8	335.4	18,277.2	56,322,388.5	622.1	2,595.8	57,111,500.0
	Net Change	-767,800	-266,426,600	**-2.1**	**-20.8**	**-146.0**	**-0.8**	**-95.3**	**-0.5**	**-95.8**	**-24.3**	**-0.5**	**-24.7**	**-76,162.6**	**-0.8**	**-3.5**	**-77,229.7**
Alternative 4-VMT from Employee Travel3	2045	5,423	1,881,642	0.09	0.2	1.3	0.01	0.7	0.00	0.7	0.2	0.00	0.2	548.7	0.01	0.0	557.4
			Alternative 4 Net Mobile Emissions	**-2.0**	**-20.6**	**-144.7**	**-0.8**	**-94.7**	**-0.5**	**-95.1**	**-24.1**	**-0.5**	**-24.5**	**-75,613.9**	**-0.8**	**-3.5**	**-76,672.3**

Notes:

VMT = vehicle miles traveled

1. Daily VMT values from Project Traffic Study.

2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.

3. Employee VMT based on number of employees, daily trips, and CalEEMod trip length for Non-Residential Home-Work Trip.

Mobile Emissions-Alternative 4 (2045) Compared to Baseline (2021)

Scenario	Analysis Year	Daily VMT	Annual VMT[2]	Daily Emissions (lb/day)[5]												
				ROG	NO_x	CO	SO_x	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Baseline-VMT Analysis[1]	2021	456,869,300	158,533,647,100	27,490.3	222,015.8	1,219,501.0	3,920.3	325,836.6	3,379.4	329,216.0	82,877.6	3,173.6	86,051.2	405,050,918.1	11,947.9	18,987.9
Alternative 4-VMT Analysis1	2045	567,789,400	197,022,921,800	8,975.0	88,807.2	622,422.2	3,482.2	406,306.1	2,044.0	408,350.1	103,411.0	1,933.4	105,344.3	357,837,072.7	3,952.1	16,492.3
	Net Change[3]	110,920,100	38,489,274,700	**-18,515.3**	**-133,208.7**	**-597,078.7**	**-438.1**	**80,469.5**	**-1,335.3**	**79,134.2**	**20,533.4**	**-1,240.2**	**19,293.1**	**-47,213,845.4**	**-7,995.8**	**-2,495.6**
Alternative 4-VMT from Employee Travel[4]	2045	5,423	1,881,642	0.5	1.2	7.4	0.0	3.9	0.0	3.9	1.0	0.0	1.0	3,486.2	0.1	0.2
			Alternative 4 Net Mobile Emissions	**-18,514.8**	**-133,207.5**	**-597,071.3**	**-438.0**	**80,473.3**	**-1,335.3**	**79,138.1**	**20,534.3**	**-1,240.2**	**19,294.1**	**-47,210,359.2**	**-7,995.7**	**-2,495.4**

Notes:

VMT = vehicle miles traveled

1. Daily VMT values from Project Traffic Study.
2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
3. Increase in VMT related to growth from 2021 to 2045.
4. Employee VMT based on number of employees, daily trips, and CalEEMod trip length for Non-Residential Home-Work Trip.
5. Increase in fugitive emissions is directly related to increase in VMT. Dust emission factors for tire wear, brake wear, and paved roads stay relatively constant over the 2021-2045 timeframe compared to engine process emissions factors which drastically decrease over this same time period due to compliance with vehicle emission standards.

Mobile Emissions-Alternative 4 (2045) Compared to Baseline (2021)

Scenario	Analysis Year	Daily VMT	Annual VMT[2]	Annual Emissions (tons/year)[5]										Annual Emissions (metric tons)			
				ROG	NO_x	CO	SO_x	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Baseline-VMT Analysis[1]	2021	456,869,300	158,533,647,100	4,769.6	38,519.7	211,583.4	680.2	56,532.7	586.3	57,119.0	14,379.3	550.6	14,929.9	63,753,693.9	1,880.6	2,988.6	64,691,322.0
Alternative 4-VMT Analysis1	2045	567,789,400	197,022,921,800	1,557.2	15,408.0	107,990.3	604.2	70,494.1	354.6	70,848.7	17,941.8	335.4	18,277.2	56,322,388.5	622.1	2,595.8	57,111,500.0
	Net Change[3]	110,920,100	38,489,274,700	**-3,212.4**	**-23,111.7**	**-103,593.2**	**-76.0**	**13,961.5**	**-231.7**	**13,729.8**	**3,562.5**	**-215.2**	**3,347.4**	**-7,431,305.3**	**-1,258.5**	**-392.8**	**-7,579,821.9**
Alternative 4-VMT from Employee Travel[4]	2045	5,423	1,881,642	0.1	0.2	1.3	0.0	0.7	0.0	0.7	0.2	0.0	0.2	548.7	0.0	0.0	557.4
			Alternative 4 Net Mobile Emissions	**-3,212.3**	**-23,111.5**	**-103,591.9**	**-76.0**	**13,962.1**	**-231.7**	**13,730.5**	**3,562.7**	**-215.2**	**3,347.5**	**-7,430,756.6**	**-1,258.5**	**-392.8**	**-7,579,264.5**

Notes:

VMT = vehicle miles traveled

1. Daily VMT values from Project Traffic Study.
2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
3. Increase in VMT related to growth from 2021 to 2045.
4. Employee VMT based on number of employees, daily trips, and CalEEMod trip length for Non-Residential Home-Work Trip.
5. Increase in fugitive emissions is directly related to increase in VMT. Dust emission factors for tire wear, brake wear, and paved roads stay relatively constant over the 2021-2045 timeframe compared to engine process emissions factors which drastically decrease over this same time period due to compliance with vehicle emission standards.

Mobile Emissions-Baseline (2021)

Alternative	Analysis Year	Daily VMT (miles/day)[1]	Days per Year[2]	Annual VMT (miles/year)	Running Emission Factor (grams/mile)[3,4]												
					ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Baseline	2021	456,869,300	347	158,533,647,100	0.0273	0.220	1.211	0.004	0.323	0.003	0.327	0.082	0.003	0.085	402.145	0.012	0.019

Notes:

1. Daily VMT values from Project Traffic Study.

2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
Source: CARB, 2008. Climate Change Draft Scoping Plan Appendices, Volume II: Analysis and Documentation.

3. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.

4. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.

5. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. CO_2 = 1; CH_4 = 25; N_2O = 298

Mobile Emissions-Baseline (2021)

Alternative	Analysis Year	Daily VMT (miles/day)[1]	Days per Year[2]	Annual VMT (miles/year)	Daily Emissions (lb/day)												
					ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Baseline	2021	456,869,300	347	158,533,647,100	27,490.3	222,015.8	1,219,501.0	3,920.3	325,836.6	3,379.4	329,216.0	82,877.6	3,173.6	86,051.2	405,050,918.1	11,947.9	18,987.9

Notes:

1. Daily VMT values from Project Traffic Study.

2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
Source: CARB, 2008. Climate Change Draft Scoping Plan Appendices, Volume II: Analysis and Documentation.

3. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.

4. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.

5. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. CO_2 = 1; CH_4 = 25; N_2O = 298

Mobile Emissions-Baseline (2021)

					Annual Emissions (tons/year)										Annual Emissions (metric tons)[5]			
Alternative	Analysis Year	Daily VMT (miles/day)[1]	Days per Year[2]	Annual VMT (miles/year)	ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Baseline	2021	456,869,300	347	158,533,647,100	4,769.6	38,519.7	211,583.4	680.2	56,532.7	586.3	57,119.0	14,379.3	550.6	14,929.9	63,753,693.9	1,880.6	2,988.6	64,691,322.0

Notes:

1. Daily VMT values from Project Traffic Study.

2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
Source: CARB, 2008. Climate Change Draft Scoping Plan Appendices, Volume II: Analysis and Documentation.

3. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.

4. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.

5. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. CO_2 = 1; CH_4 = 25; N_2O = 298

Mobile Emissions-No Project Alternative (2045)

Alternative	Analysis Year	Daily VMT (miles/day)[1]	Days per Year[2]	Annual VMT (miles/year)	Running Emission Factor (grams/mile)[3,4]												
					ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
No Project	2045	568,557,200	347	197,289,348,400	0.01	0.07	0.50	0.003	0.32	0.002	0.33	0.08	0.002	0.08	285.87	0.003	0.01

Notes:

1. Daily VMT values from Project Traffic Study.
2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
Source: CARB, 2008. Climate Change Draft Scoping Plan Appendices, Volume II: Analysis and Documentation.
3. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.
4. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
5. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. $CO_2 = 1$; $CH_4 = 25$; $N_2O = 298$

Mobile Emissions-No Project Alternative (2045)

Alternative	Analysis Year	Daily VMT (miles/day)[1]	Days per Year[2]	Annual VMT (miles/year)	Daily Emissions (lb/day)												
					ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
No Project	2045	568,557,200	347	197,289,348,400	8987.2	88927.3	623263.9	3486.9	406855.5	2046.8	408902.3	103550.8	1936.0	105486.8	358320962.1	3957.5	16514.6

Notes:

1. Daily VMT values from Project Traffic Study.
2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
   Source: CARB, 2008. Climate Change Draft Scoping Plan Appendices, Volume II: Analysis and Documentation.
3. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.
4. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
5. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. $CO_2 = 1$; $CH_4 = 25$; $N_2O = 298$

Mobile Emissions-No Project Alternative (2045)					Annual Emissions (tons/year)										Annual Emissions (metric tons)[5]			
Alternative	Analysis Year	Daily VMT (miles/day)[1]	Days per Year[2]	Annual VMT (miles/year)	ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
No Project	2045	568,557,200	347	197,289,348,400	1559.3	15428.9	108136.3	605.0	70589.4	355.1	70944.6	17966.1	335.9	18302.0	56398551.2	622.9	2599.3	57188729.7

Notes:

1. Daily VMT values from Project Traffic Study.
2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
Source: CARB, 2008. Climate Change Draft Scoping Plan Appendices, Volume II: Analysis and Documentation.
3. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.
4. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
5. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. $CO_2 = 1$; $CH_4 = 25$; $N_2O = 298$

Alternative 4 Mobile Emissions Summary (2045)

Scenario	Analysis Year	Daily VMT	Annual VMT	Daily Emissions (lb/day)												
				ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Alternative 4[1]	2045	567,789,400	197,022,921,800	8,975.0	88,807.2	622,422.2	3,482.2	406,306.1	2,044.0	408,350.1	103,411.0	1,933.4	105,344.3	357,837,072.7	3,952.1	16,492.3
Employee Travel to MSF[2]	2045	5,423	1,881,642	0.5	1.2	7.4	0.0	3.9	0.0	3.9	1.0	0.02	1.0	3,486.2	0.1	0.2
			Total Mobile Emissions	**8,975.5**	**88,808.4**	**622,429.6**	**3,482.2**	**406,309.9**	**2,044.1**	**408,354.0**	**103,412.0**	**1,933.4**	**105,345.3**	**357,840,558.9**	**3,952.2**	**16,492.5**

Notes:

VMT = vehicle miles traveled

1. Daily VMT values from Project Traffic Study.

2. Accounts for employee trips to and from Operations Maintenace and Storage Facilities (main MSF and e-Bus MSF).

Alternative 4 Mobile Emissions Summary (2045)

Scenario	Analysis Year	Daily VMT	Annual VMT	Annual Emissions (tons/year)										Annual Emissions (metric tons)			
				ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Alternative 4[1]	2045	567,789,400	197,022,921,800	1,557.2	15,408.0	107,990.3	604.2	70,494.1	354.6	70,848.7	17,941.8	335.4	18,277.2	56,322,388.5	622.1	2,595.8	57,111,500.0
Employee Travel to MSF[2]	2045	5,423	1,881,642	0.091	0.206	1.282	0.006	0.673	0.0035	0.677	0.171	0.0033	0.175	548.7	0.011	0.028	557.4
			Total Mobile Emissions	**1,557.3**	**15,408.2**	**107,991.5**	**604.2**	**70,494.8**	**354.6**	**70,849.4**	**17,942.0**	**335.4**	**18,277.4**	**56,322,937.3**	**622.1**	**2,595.9**	**57,112,057.5**

Notes:

VMT = vehicle miles traveled

1. Daily VMT values from Project Traffic Study.

2. Accounts for employee trips to and from Operations Maintenace and Storage Facilities (main MSF and e-Bus MSF).

Mobile Emissions-Alternative 4 VMT Analysis (2045)

Alternative	Analysis Year	Daily VMT (miles/day)[1]	Days per Year[2]	Annual VMT (miles/year)	Running Emission Factor (grams/mile)[3,4]												
					ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Alternative 4	2045	567,789,400	347	197,022,921,800	0.007	0.071	0.497	0.003	0.325	0.002	0.326	0.083	0.002	0.084	285.867	0.003	0.013

Notes:

1. Daily VMT values from Project Traffic Study.
2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
Source: CARB, 2008. Climate Change Draft Scoping Plan Appendices, Volume II: Analysis and Documentation.
3. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.
4. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
5. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. $CO_2 = 1$; $CH_4 = 25$; $N_2O = 298$

Mobile Emissions-Alternative 4 VMT Analysis (2045)

Alternative	Analysis Year	Daily VMT (miles/day)[1]	Days per Year[2]	Annual VMT (miles/year)	Daily Emissions (lb/day)												
					ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Alternative 4	2045	567,789,400	347	197,022,921,800	8975.0	88807.2	622422.2	3482.2	406306.1	2044.0	408350.1	103411.0	1933.4	105344.3	357837072.7	3952.1	16492.3

Notes:

1. Daily VMT values from Project Traffic Study.
2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
Source: CARB, 2008. Climate Change Draft Scoping Plan Appendices, Volume II: Analysis and Documentation.
3. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.
4. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
5. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. $CO_2 = 1$; $CH_4 = 25$; $N_2O = 298$

Mobile Emissions-Alternative 4 VMT Analysis (2045)

					Annual Emissions (tons/year)										Annual Emissions (metric tons)[5]			
Alternative	Analysis Year	Daily VMT (miles/day)[1]	Days per Year[2]	Annual VMT (miles/year)	ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Alternative 4	2045	567,789,400	347	197,022,921,800	1557.2	15408.0	107990.3	604.2	70494.1	354.6	70848.7	17941.8	335.4	18277.2	56322388.5	622.1	2595.8	57111500.0

Notes:

1. Daily VMT values from Project Traffic Study.
2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
Source: CARB, 2008. Climate Change Draft Scoping Plan Appendices, Volume II: Analysis and Documentation.
3. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.
4. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
5. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. CO_2 = 1; CH_4 = 25; N_2O = 298

Mobile Emissions-Employee Travel (2045)

Alternative	Analysis Year	Employees per day[1]	Daily One-Way Trips[2]	One-Way Trip Length (miles)[3]	Daily VMT (miles/day)	Days per Year[4]	Trips per Year	Annual VMT (miles/year)	Running Emission Factor (grams/mile)[5,6]												
									ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Alternative 4	2045	190	380	14.3	5,423	347	131,860	1,881,642	0.01	0.07	0.50	0.003	0.32	0.002	0.33	0.08	0.002	0.08	285.87	0.003	0.01

Notes:

1. Data provided by STCP team.
2. Accounts for employee trips to and from main MSF and e-Bus MSF.
3. Trip length based on CalEEMod default value for Non-Residential Home-Work trip length for Commercial Building.
4. Annual miles and trips are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
Source: CARB, 2008. Climate Change Draft Scoping Plan
5. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.
6. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
7. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
8. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. $CO_2 = 1$; $CH_4 = 25$; $N_2O = 298$

Mobile Emissions-Employee Travel (2045)

Alternative	Analysis Year	Employees per day[1]	Daily One-Way Trips[2]	One-Way Trip Length (miles)[3]	Daily VMT (miles/day)	Days per Year[4]	Trips per Year	Annual VMT (miles/year)	Non-Running Emission Factor (grams/trip)[5,7]												
									ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Alternative 4	2045	190	380	14.3	5,423	347	131,860	1,881,642	0.52	0.41	1.73	0.00	-	0.00	0.00	-	0.00	0.00	82.01	0.03	0.03

Notes:

1. Data provided by STCP team.
2. Accounts for employee trips to and from main MSF and e-Bus MSF.
3. Trip length based on CalEEMod default value for Non-Residential Home-Work trip length for Commercial Building.
4. Annual miles and trips are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
Source: CARB, 2008. Climate Change Draft Scoping Plan
5. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.
6. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
7. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
8. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. CO_2 = 1; CH_4 = 25; N_2O = 298

Mobile Emissions-Employee Travel (2045)

Alternative	Analysis Year	Employees per day[1]	Daily One-Way Trips[2]	One-Way Trip Length (miles)[3]	Daily VMT (miles/day)	Days per Year[4]	Trips per Year	Annual VMT (miles/year)	Daily Emissions (lb/day)													
									ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Alternative 4	2045	190	380	14.3	5,423	347	131,860	1,881,642	0.52	1.19	7.39	0.03	3.88	0.02	3.90	0.99	0.02	1.01	3486.18	0.07	0.18

Notes:

1. Data provided by STCP team.
2. Accounts for employee trips to and from main MSF and e-Bus MSF.
3. Trip length based on CalEEMod default value for Non-Residential Home-Work trip length for Commercial Building.
4. Annual miles and trips are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
   Source: CARB, 2008. Climate Change Draft Scoping Plan
5. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.
6. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
7. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
8. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. $CO_2 = 1$; $CH_4 = 25$; $N_2O = 298$

Mobile Emissions-Employee Travel (2045)

Alternative	Analysis Year	Employees per day[1]	Daily One-Way Trips[2]	One-Way Trip Length (miles)[3]	Daily VMT (miles/day)	Days per Year[4]	Trips per Year	Annual VMT (miles/year)	Annual Emissions (tons/year)										Annual Emissions (metric tons)[8]			
									ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Alternative 4	2045	190	380	14.3	5,423	347	131,860	1,881,642	0.091	0.206	1.282	0.006	0.673	0.004	0.677	0.171	0.003	0.175	548.7	0.011	0.028	557.4

Notes:

1. Data provided by STCP team.
2. Accounts for employee trips to and from main MSF and e-Bus MSF.
3. Trip length based on CalEEMod default value for Non-Residential Home-Work trip length for Commercial Building.
4. Annual miles and trips are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
Source: CARB, 2008. Climate Change Draft Scoping Plan
5. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.
6. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
7. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
8. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. CO_2 = 1; CH_4 = 25; N_2O = 298

Daily Paved Road Dust Emission Factor[1]

$$E_{ext} = [\, k\,(sL)^{0.91} \times (W)^{1.02} \,]\,(1 - P/4N)$$

Parameter	Description	Source:
E_{ext}	Annual or other long-term average emission factor in the same units as k	USEPA AP-42, Paved Roads Methodology
k	Particle size multiplier for particle size range and units of interest	CalEEMod Default Value
sL	road surface silt loading (g/m^2)	CalEEMod Default Value
W	average weight (tons) of all the vehicles raveling the road (2.4 tons)	CalEEMod Default Value
P	Number of "wet" days with at least 0.254 mm (0.01 in) of precipitation during the averaging period	Avg of CalEEMod default values for Van Nuys and Santa Monica
N	Number of days in the averaging period (e.g. 365 for annual, 91 for seasonal, 30 for monthly)	CalEEMod Default Value

Parameters	PM_{10}	$PM_{2.5}$
k (g/VMT)	1.000	0.250
sL (g/m^2)	0.1	0.1
W (tons)	2.4	2.4
P ("wet" days)[2]	19.1	19.1
N (days per year)	365	365
EF without natural dust control (precipitation) (g/mi)	3.00E-01	7.51E-02

Notes:

1. AP42, Section 13.2.1 Paved Roads, January 2011
2. Consistent with Appendix C of the CalEEMod User's Guide, daily road dust emission factors do not account for a precipitation adjustment.

MSF Operations CalEEMod Output Report (MSF Operations are the same for Alt 4 and Alt 5)

STC Alt 4 & Alt 5 MSF Operations Detailed Report

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4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.3. Area Emissions by Source

4.3.1. Unmitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	STC Alt 4 & Alt 5 MSF Operations
Operational Year	2045
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	18.6
Location	34.1614082382909, -118.46737205425525
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	3863
EDFZ	17
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.24

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
General Office Building	202	1000sqft	2.32	202,000	5,050	—	—	—

Unrefrigerated Warehouse-No Rail	66.8	1000sqft	1.53	66,800	3,340	—	—	—
Parking Lot	12.7	Acre	12.7	0.00	27,585	—	—	—
Other Non-Asphalt Surfaces	26.9	Acre	26.9	0.00	58,550	—	—	—
City Park	2.60	Acre	2.60	0.00	113,256	113,256	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	8.03	7.87	0.10	11.7	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	234	1,458	1,691	23.6	0.24	0.49	2,354
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.95	5.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	234	1,410	1,643	23.6	0.24	0.49	2,305
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	7.38	7.27	0.07	8.01	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	234	1,443	1,676	23.6	0.24	0.49	2,338
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.35	1.33	0.01	1.46	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	38.7	239	278	3.91	0.04	0.08	387

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	8.03	7.87	0.10	11.7	< 0.005	0.02	—	0.02	0.02	—	0.02	—	48.1	48.1	< 0.005	< 0.005	—	48.2
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	1,319	1,319	0.00	0.00	—	1,319
Water	—	—	—	—	—	—	—	—	—	—	—	98.4	90.5	189	10.1	0.24	—	513
Waste	—	—	—	—	—	—	—	—	—	—	—	135	0.00	135	13.5	0.00	—	473
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.49	0.49
Total	8.03	7.87	0.10	11.7	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	234	1,458	1,691	23.6	0.24	0.49	2,354
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	5.95	5.95	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	1,319	1,319	0.00	0.00	—	1,319
Water	—	—	—	—	—	—	—	—	—	—	—	98.4	90.5	189	10.1	0.24	—	513
Waste	—	—	—	—	—	—	—	—	—	—	—	135	0.00	135	13.5	0.00	—	473
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.49	0.49
Total	5.95	5.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	234	1,410	1,643	23.6	0.24	0.49	2,305
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	7.38	7.27	0.07	8.01	< 0.005	0.01	—	0.01	0.01	—	0.01	—	32.9	32.9	< 0.005	< 0.005	—	33.0
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	1,319	1,319	0.00	0.00	—	1,319
Water	—	—	—	—	—	—	—	—	—	—	—	98.4	90.5	189	10.1	0.24	—	513

Waste	—	—	—	—	—	—	—	—	—	—	—	135	0.00	135	13.5	0.00	—	473
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.49	0.49
Total	7.38	7.27	0.07	8.01	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	234	1,443	1,676	23.6	0.24	0.49	2,338
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	1.35	1.33	0.01	1.46	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.45	5.45	< 0.005	< 0.005	—	5.47
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	218	218	0.00	0.00	—	218
Water	—	—	—	—	—	—	—	—	—	—	—	16.3	15.0	31.3	1.67	0.04	—	84.9
Waste	—	—	—	—	—	—	—	—	—	—	—	22.4	0.00	22.4	2.24	0.00	—	78.3
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.08	0.08
Total	1.35	1.33	0.01	1.46	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	38.7	239	278	3.91	0.04	0.08	387

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	1,053	1,053	0.00	0.00	—	1,053
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	150	150	0.00	0.00	—	150
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	117	117	0.00	0.00	—	117
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,319	1,319	0.00	0.00	—	1,319

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	1,053	1,053	0.00	0.00	—	1,053
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	150	150	0.00	0.00	—	150
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	117	117	0.00	0.00	—	117
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,319	1,319	0.00	0.00	—	1,319
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	174	174	0.00	0.00	—	174
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	24.8	24.8	0.00	0.00	—	24.8
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	19.3	19.3	0.00	0.00	—	19.3
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	218	218	0.00	0.00	—	218

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	5.95	5.95	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landsca Equipment	2.08	1.92	0.10	11.7	< 0.005	0.02	—	0.02	0.02	—	0.02	—	48.1	48.1	< 0.005	< 0.005	—	48.2
Total	8.03	7.87	0.10	11.7	< 0.005	0.02	—	0.02	0.02	—	0.02	—	48.1	48.1	< 0.005	< 0.005	—	48.2
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consum er Products	5.95	5.95	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	5.95	5.95	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consum er Products	1.09	1.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landsca pe Equipme nt	0.26	0.24	0.01	1.46	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.45	5.45	< 0.005	< 0.005	—	5.47
Total	1.35	1.33	0.01	1.46	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.45	5.45	< 0.005	< 0.005	—	5.47

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	68.8	59.0	128	7.05	0.17	—	354

Unrefrigerated	—	—	—	—	—	—	—	—	—	—	—	29.6	25.4	55.0	3.04	0.07	—	152
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.49	0.49	0.00	0.00	—	0.49
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	1.05	1.05	0.00	0.00	—	1.05
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	4.52	4.52	0.00	0.00	—	4.52
Total	—	—	—	—	—	—	—	—	—	—	—	98.4	90.5	189	10.1	0.24	—	513
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	68.8	59.0	128	7.05	0.17	—	354
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	29.6	25.4	55.0	3.04	0.07	—	152
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.49	0.49	0.00	0.00	—	0.49
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	1.05	1.05	0.00	0.00	—	1.05
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	4.52	4.52	0.00	0.00	—	4.52
Total	—	—	—	—	—	—	—	—	—	—	—	98.4	90.5	189	10.1	0.24	—	513
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	11.4	9.77	21.2	1.17	0.03	—	58.6

Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	4.90	4.21	9.11	0.50	0.01	—	25.2
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.08	0.08	0.00	0.00	—	0.08
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.17	0.17	0.00	0.00	—	0.17
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.75	0.75	0.00	0.00	—	0.75
Total	—	—	—	—	—	—	—	—	—	—	—	16.3	15.0	31.3	1.67	0.04	—	84.9

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	101	0.00	101	10.1	0.00	—	354
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	33.8	0.00	33.8	3.38	0.00	—	118
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

City Park	—	—	—	—	—	—	—	—	—	—	—	0.12	0.00	0.12	0.01	0.00	—	0.42
Total	—	—	—	—	—	—	—	—	—	—	—	135	0.00	135	13.5	0.00	—	473
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	101	0.00	101	10.1	0.00	—	354
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	33.8	0.00	33.8	3.38	0.00	—	118
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	0.12	0.00	0.12	0.01	0.00	—	0.42
Total	—	—	—	—	—	—	—	—	—	—	—	135	0.00	135	13.5	0.00	—	473
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	16.8	0.00	16.8	1.68	0.00	—	58.6
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	5.60	0.00	5.60	0.56	0.00	—	19.6
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	0.02	0.00	0.02	< 0.005	0.00	—	0.07

Total	—	—	—	—	—	—	—	—	—	—	—	22.4	0.00	22.4	2.24	0.00	—	78.3

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.49	0.49
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.49	0.49
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.49	0.49
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.49	0.49
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.08	0.08
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.08	0.08

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
—	—	—	—	—

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00

Summer Days	day/yr	250

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
General Office Building	4,367,944	88.0	0.0000	0.0000	0.00
Unrefrigerated Warehouse-No Rail	620,146	88.0	0.0000	0.0000	0.00
Parking Lot	483,469	88.0	0.0000	0.0000	0.00
Other Non-Asphalt Surfaces	0.00	88.0	0.0000	0.0000	0.00
City Park	0.00	88.0	0.0000	0.0000	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Office Building	35,902,217	70,824
Unrefrigerated Warehouse-No Rail	15,447,500	46,842
Parking Lot	0.00	386,868
Other Non-Asphalt Surfaces	0.00	821,139
City Park	0.00	3,529,707

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)

General Office Building	188	—
Unrefrigerated Warehouse-No Rail	62.8	—
Parking Lot	0.00	—
Other Non-Asphalt Surfaces	0.00	—
City Park	0.22	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
City Park	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
City Park	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	15.4	annual days of extreme heat
Extreme Precipitation	7.15	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	2	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	2	1	1	3
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	80.0
AQ-PM	68.9
AQ-DPM	79.9

Drinking Water	83.1
Lead Risk Housing	43.8
Pesticides	0.00
Toxic Releases	64.7
Traffic	99.8
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	14.3
Haz Waste Facilities/Generators	40.9
Impaired Water Bodies	77.3
Solid Waste	0.00
Sensitive Population	—
Asthma	37.7
Cardio-vascular	69.7
Low Birth Weights	73.3
Socioeconomic Factor Indicators	—
Education	23.7
Housing	57.4
Linguistic	25.6
Poverty	28.2
Unemployment	74.1

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	75.74746567

Employed	87.75824458
Median HI	58.59104324
Education	—
Bachelor's or higher	84.51174131
High school enrollment	100
Preschool enrollment	95.7141024
Transportation	—
Auto Access	45.25856538
Active commuting	52.31618119
Social	—
2-parent households	93.32734505
Voting	0.654433466
Neighborhood	—
Alcohol availability	29.15436931
Park access	23.72642115
Retail density	81.59887078
Supermarket access	31.14333376
Tree canopy	66.90619787
Housing	—
Homeownership	39.93327345
Housing habitability	38.27794174
Low-inc homeowner severe housing cost burden	10.18863082
Low-inc renter severe housing cost burden	48.80020531
Uncrowded housing	96.93314513
Health Outcomes	—
Insured adults	46.81124086
Arthritis	73.2

Asthma ER Admissions	67.3
High Blood Pressure	79.9
Cancer (excluding skin)	30.9
Asthma	69.3
Coronary Heart Disease	77.0
Chronic Obstructive Pulmonary Disease	79.3
Diagnosed Diabetes	89.8
Life Expectancy at Birth	81.3
Cognitively Disabled	93.6
Physically Disabled	55.6
Heart Attack ER Admissions	14.6
Mental Health Not Good	73.6
Chronic Kidney Disease	85.5
Obesity	67.3
Pedestrian Injuries	79.9
Physical Health Not Good	81.0
Stroke	80.6
Health Risk Behaviors	—
Binge Drinking	10.6
Current Smoker	71.8
No Leisure Time for Physical Activity	90.4
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	64.0
Elderly	56.5
English Speaking	57.1

Foreign-born	53.9
Outdoor Workers	52.2
Climate Change Adaptive Capacity	—
Impervious Surface Cover	44.9
Traffic Density	98.7
Traffic Access	72.0
Other Indices	—
Hardship	11.1
Other Decision Support	—
2016 Voting	42.4

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	65.0
Healthy Places Index Score for Project Location (b)	67.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Characteristics: Utility Information	This is a forecasted CO2e Intensity Factor for LADWP in 2045. SB100 will require electricity provided to customers to be from 100% renewable sources by 2045. SB100 allows for the use of renewable energy credits, which allows for natural gas to provide up to 10% of power generation, therefore the CO2e Intensity Factor accounts for some electricity generated from natural gas. Because it is a CO2e intensity factor, intensity factors for CH4 and N2O were zeroed-out.
Land Use	For all non-park land uses, it was assumed 5 percent of lot acreage would be landscaped.
Operations: Vehicle Data	Mobile emissions for employees at MSF calculated outside of CalEEMod.
Operations: Energy Use	For Office Buildings and other MSF buildings categorized as Unrefrigerated Warehouse, CalEEMod generated default annual electricity (kWh) and natural gas consumption in kBTU/year, however, in accordance with the City of LA Municipal Code, all new buildings would be required to be all-electric buildings. Therefore, the annual natural gas consumption value (kBTU) was converted to kWh to account for the additional electricity consumption that is substituted for natural gas, and then added to the default electricity consumption value.

Station Operations CalEEMod Output Report

STC Alt 4-Station Operations Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	STC Alt 4-Station Operations
Operational Year	2045
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	18.6
Location	34.162913426357576, -118.46870080793718
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	3863
EDFZ	17
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.24

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Enclosed Parking with Elevator	945	1000sqft	8.65	945,000	18,850	—	—	—

Parking Lot	324	1000sqft	7.43	0.00	16,182	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	7.45	6.89	0.35	41.1	< 0.005	0.07	0.00	0.07	0.06	0.00	0.06	0.00	1,079	1,079	0.01	< 0.005	0.00	1,080
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.13	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	910	910	0.00	0.00	0.00	910
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.15	4.76	0.24	28.2	< 0.005	0.05	0.00	0.05	0.04	0.00	0.04	0.00	1,026	1,026	< 0.005	< 0.005	0.00	1,026
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.94	0.87	0.04	5.14	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	170	170	< 0.005	< 0.005	0.00	170

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	7.45	6.89	0.35	41.1	< 0.005	0.07	—	0.07	0.06	—	0.06	—	169	169	0.01	< 0.005	—	170
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	909	909	0.00	0.00	—	909
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.63	0.63	0.00	0.00	—	0.63
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	7.45	6.89	0.35	41.1	< 0.005	0.07	0.00	0.07	0.06	0.00	0.06	0.00	1,079	1,079	0.01	< 0.005	0.00	1,080
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	0.13	0.13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	909	909	0.00	0.00	—	909
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.63	0.63	0.00	0.00	—	0.63
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	0.13	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	910	910	0.00	0.00	0.00	910
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	5.15	4.76	0.24	28.2	< 0.005	0.05	—	0.05	0.04	—	0.04	—	116	116	< 0.005	< 0.005	—	116
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	909	909	0.00	0.00	—	909
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.63	0.63	0.00	0.00	—	0.63
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	5.15	4.76	0.24	28.2	< 0.005	0.05	0.00	0.05	0.04	0.00	0.04	0.00	1,026	1,026	< 0.005	< 0.005	0.00	1,026
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	0.94	0.87	0.04	5.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.2	19.2	< 0.005	< 0.005	—	19.2

Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	151	151	0.00	0.00	—	151
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.10	0.10	0.00	0.00	—	0.10
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	0.94	0.87	0.04	5.14	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	170	170	< 0.005	< 0.005	0.00	170

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	841	841	0.00	0.00	—	841
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	68.4	68.4	0.00	0.00	—	68.4
Total	—	—	—	—	—	—	—	—	—	—	—	—	909	909	0.00	0.00	—	909
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	841	841	0.00	0.00	—	841

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	68.4	68.4	0.00	0.00	—	68.4
Total	—	—	—	—	—	—	—	—	—	—	—	—	909	909	0.00	0.00	—	909
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	139	139	0.00	0.00	—	139
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	11.3	11.3	0.00	0.00	—	11.3
Total	—	—	—	—	—	—	—	—	—	—	—	—	151	151	0.00	0.00	—	151

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.08	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	7.32	6.76	0.35	41.1	< 0.005	0.07	—	0.07	0.06	—	0.06	—	169	169	0.01	< 0.005	—	170
Total	7.45	6.89	0.35	41.1	< 0.005	0.07	—	0.07	0.06	—	0.06	—	169	169	0.01	< 0.005	—	170

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.08	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.13	0.13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.91	0.84	0.04	5.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.2	19.2	< 0.005	< 0.005	—	19.2
Total	0.94	0.87	0.04	5.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.2	19.2	< 0.005	< 0.005	—	19.2

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.34	0.34	0.00	0.00	—	0.34
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.29	0.29	0.00	0.00	—	0.29
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.63	0.63	0.00	0.00	—	0.63
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.34	0.34	0.00	0.00	—	0.34
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.29	0.29	0.00	0.00	—	0.29
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.63	0.63	0.00	0.00	—	0.63
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.06	0.06	0.00	0.00	—	0.06
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.05	0.05	0.00	0.00	—	0.05
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.10	0.10	0.00	0.00	—	0.10

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	16,956	1,884	42,026

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Enclosed Parking with Elevator	3,488,403	88.0	0.0000	0.0000	0.00
Parking Lot	283,513	88.0	0.0000	0.0000	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Enclosed Parking with Elevator	0.00	264,363
Parking Lot	0.00	226,946

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Enclosed Parking with Elevator	0.00	—
Parking Lot	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	15.4	annual days of extreme heat
Extreme Precipitation	7.15	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth

Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	2	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	2	1	1	3

Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	80.0
AQ-PM	68.9
AQ-DPM	79.9
Drinking Water	83.1
Lead Risk Housing	43.8
Pesticides	0.00
Toxic Releases	64.7
Traffic	99.8

Effect Indicators	—
CleanUp Sites	0.00
Groundwater	14.3
Haz Waste Facilities/Generators	40.9
Impaired Water Bodies	77.3
Solid Waste	0.00
Sensitive Population	—
Asthma	37.7
Cardio-vascular	69.7
Low Birth Weights	73.3
Socioeconomic Factor Indicators	—
Education	23.7
Housing	57.4
Linguistic	25.6
Poverty	28.2
Unemployment	74.1

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	75.74746567
Employed	87.75824458
Median HI	58.59104324
Education	—
Bachelor's or higher	84.51174131
High school enrollment	100

Preschool enrollment	95.7141024
Transportation	—
Auto Access	45.25856538
Active commuting	52.31618119
Social	—
2-parent households	93.32734505
Voting	0.654433466
Neighborhood	—
Alcohol availability	29.15436931
Park access	23.72642115
Retail density	81.59887078
Supermarket access	31.14333376
Tree canopy	66.90619787
Housing	—
Homeownership	39.93327345
Housing habitability	38.27794174
Low-inc homeowner severe housing cost burden	10.18863082
Low-inc renter severe housing cost burden	48.80020531
Uncrowded housing	96.93314513
Health Outcomes	—
Insured adults	46.81124086
Arthritis	73.2
Asthma ER Admissions	67.3
High Blood Pressure	79.9
Cancer (excluding skin)	30.9
Asthma	69.3
Coronary Heart Disease	77.0

Chronic Obstructive Pulmonary Disease	79.3
Diagnosed Diabetes	89.8
Life Expectancy at Birth	81.3
Cognitively Disabled	93.6
Physically Disabled	55.6
Heart Attack ER Admissions	14.6
Mental Health Not Good	73.6
Chronic Kidney Disease	85.5
Obesity	67.3
Pedestrian Injuries	79.9
Physical Health Not Good	81.0
Stroke	80.6
Health Risk Behaviors	—
Binge Drinking	10.6
Current Smoker	71.8
No Leisure Time for Physical Activity	90.4
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	64.0
Elderly	56.5
English Speaking	57.1
Foreign-born	53.9
Outdoor Workers	52.2
Climate Change Adaptive Capacity	—
Impervious Surface Cover	44.9
Traffic Density	98.7

Traffic Access	72.0
Other Indices	—
Hardship	11.1
Other Decision Support	—
2016 Voting	42.4

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	65.0
Healthy Places Index Score for Project Location (b)	67.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification

Characteristics: Utility Information	This is a forecasted CO2e Intensity Factor for LADWP in 2045. SB100 will require electricity provided to customers to be from 100% renewable sources by 2045. SB100 allows for the use of renewable energy credits, which allows for natural gas to provide up to 10% of power generation, therefore the CO2e Intensity Factor accounts for some electricity generated from natural gas. Because it is a CO2e intensity factor, intensity factors for CH4 and N2O were zeroed-out.
Land Use	CalEEMod does not have train station land use types, therefore, stations were represented using the "Enclosed Parking with Elevators" land use type. This land use type was selected because it accounts for electricity consumption from elevators and ventilation systems. Although aerial stations would not be enclosed, this land use type would result in a conservative estimate of electricity consumption. The building area represents the station area for all stations in this alternative. It was also assumed 5 percent of the lot acreage would be landscaped.

Alignment Electricity Consumption

Alternatives 4 and 5 Electricity Consumption

Approximate Estimates of Overall Power Consumption of Transit System

Load Type	Location	Alt 4 Annual Avg Energy Consumption (kWh)	Alt 5 Annual Avg Energy Consumption (kWh)
Mechanical, Electrical, and Plumbing (MEP)	E-Line/Sepulveda	7,089,690	7,089,690
	Santa Monica Blvd	7,089,690	7,089,690
	Wilshire/Westwood	7,089,690	7,089,690
	UCLA	7,089,690	7,089,690
	Santa Monica Mountains Tunnel	3,942,000	3,942,000
	Sepulveda Ventura	1,556,543	7,089,690
	Metro G-Line	1,556,543	7,089,690
	Sherman Way	1,556,543	7,089,690
	Van Nuys	1,556,543	1,556,543
	MSF	7,884,000	7,884,000
Traction Power and Rolling Stock Aux Power	Mainline	71,062,491	71,062,491
	MSF	16,226,078	16,226,078
	Total	**133,699,501**	**150,298,942**

GHG Emissions from Electricity Consumption

STCP Alternatives	Annual Consumption (MWh)	2045 LADWP CO_2e Intensity Factor (lb/MWh)[2]	Annual GHG Emissions ($MTCO_2e$/yr)
Alternative 4	133,699.50	88.0	5339.4
Alternative 5	150,298.94	88.0	6002.3

Notes:

1. Electricity consumption values based on STCP's Energy Consumption During Operations Report (HRT.PH3.3.6.10.k)

2. This is a forecasted CO_2e Intensity Factor for LADWP in 2045. SB100 will require electricity provided to customers to be from 100%renewable sources by 2045. SB100 allows for the use of renewable energy credits, thus allowing for the combustion of natural gas to provide up to 10% of generation, thus the CO_2e Intensity Factor accounts for some electricity generated from natural gas.

lb = pound
kWh = kilowatt-hour
MWh = Megawatt-hour
Conversion Factor (lb to MT): 2204.62

Emergency Generator Emissions

Emergency Generators

Generator Data

Parameter	Value
Rating (MW):	1.5
Rating (kVA):	1875
Horsepower (HP)[3]:	2346

										Emission Factor (g/bhp-hr)[5]														
Alternative	Generator Scenario	# of UG Stations	Generators per UG Station	# of Generators	M&T Daily Use per Generator (hours/day)	Annual M&T Usage (hour/year)[2]	Total Annual Tesing Hours (hours/year)	HP[3]	Load Factor[4]	ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Alternative 4 & 5	Underground Stations-SEE NOTE	4	1	-	1	50	-	2,346	0.73	1.02	4.56	2.60	0.005	-	0.15	0.15	-	0.15	0.15	521.64	0.0209	0.0041
Alternative 4 & 5	MSF	n/a	n/a	1	1	50	50	2,346	0.73	1.02	4.56	2.60	0.005	-	0.15	0.15	-	0.15	0.15	521.64	0.0209	0.0041

Notes:

M&T = Maintenance and Testing

1. MSF would require an emergency generator.
2. SCAQMD 2021, Rule 1470. Generators shall not operate more than 50 hours per year for maintenance and testing.
3. HP obtained from spec sheet for Generac Diesel Generator-SD1500 (1875 kVA)
4. Load factor is based on CalEEMod default value for emergency generators.
5. Emission factors are based on CalEEMod default values for emergency generators.
6. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. $CO_2 = 1$; $CH_4 = 25$; $N_2O = 298$
7. Based on designs for Emergency and Uninterruptible Power Supply, backup power for alignment components would be supplied by a battery system and would not require diesel generators.

Emergency Generators

Generator Data

Parameter	Value
Rating (MW):	1.5
Rating (kVA):	1875
Horsepower (HP)[3]:	2346

										Daily Emissions (lb/day)													
Alternative	**Generator Scenario**	**# of UG Stations**	**Generators per UG Station**	**# of Generators**	**M&T Daily Use per Generator (hours/day)**	**Annual M&T Usage (hour/year)[2]**	**Total Annual Tesing Hours (hours/year)**	**HP[3]**	**Load Factor[4]**	**ROG**	**NO_X**	**CO**	**SO_X**	**PM_{10} Fugitive**	**PM_{10} Exhaust**	**PM_{10} Total**	**$PM_{2.5}$ Fugitive**	**$PM_{2.5}$ Exhaust**	**$PM_{2.5}$ Total**	**CO_2**	**CH_4**	**N_2O**
Alternative 4 & 5	Underground Stations-SEE NOTE	4	1	-	1	50	-	2,346	0.73	-	-	-	-	-	-	-	-	-	-	-	-	-
Alternative 4 & 5	MSF	n/a	n/a	1	1	50	50	2,346	0.73	3.85	17.22	9.82	0.02	-	0.57	0.57	-	0.57	0.57	1969.5	0.08	0.02
										3.85	17.22	9.82	0.02	-	0.57	0.57	-	0.57	0.57	1969.50	0.08	0.02

Notes:

M&T = Maintenance and Testing

1. MSF would require an emergency generator.
2. SCAQMD 2021, Rule 1470. Generators shall not operate more than 50 hours per year for maintenance and testing.
3. HP obtained from spec sheet for Generac Diesel Generator-SD1500 (1875 kVA)
4. Load factor is based on CalEEMod default value for emergency generators.
5. Emission factors are based on CalEEMod default values for emergency generators.
6. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. CO_2 = 1; CH_4 = 25; N_2O = 298
7. Based on designs for Emergency and Uninterruptible Power Supply, backup power for alignment components would be supplied by a battery system and would not require diesel generators.

Emergency Generators

Generator Data

Parameter	Value
Rating (MW):	1.5
Rating (kVA):	1875
Horsepower (HP)[3]:	2346

										Annual Emissions (tons)										Annual Emissions (metric tons)[6]			
Alternative	Generator Scenario	# of UG Stations	Generators per UG Station	# of Generators	M&T Daily Use per Generator (hours/day)	Annual M&T Usage (hour/year)[2]	Total Annual Tesing Hours (hours/year)	HP[3]	Load Factor[4]	ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Alternative 4 & 5	Underground Stations-SEE NOTE	4	1	-	1	50	-	2,346	0.73	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alternative 4 & 5	MSF	n/a	n/a	1	1	50	50	2,346	0.73	0.10	0.43	0.25	0.00	-	0.01	0.01	-	0.01	0.01	44.67	0.00	0.00	44.82
										0.10	0.43	0.25	0.00	-	0.01	0.01	-	0.01	0.01	44.67	0.00	0.00	44.82

Notes:

M&T = Maintenance and Testing

1. MSF would require an emergency generator.
2. SCAQMD 2021, Rule 1470. Generators shall not operate more than 50 hours per year for maintenance and testing.
3. HP obtained from spec sheet for Generac Diesel Generator-SD1500 (1875 kVA)
4. Load factor is based on CalEEMod default value for emergency generators.
5. Emission factors are based on CalEEMod default values for emergency generators.
6. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. CO_2 = 1; CH_4 = 25; N_2O = 298
7. Based on designs for Emergency and Uninterruptible Power Supply, backup power for alignment components would be supplied by a battery system and would not require diesel generators.

LADWP Forecasted CO_2e Intensity Factor Calculation for 2045

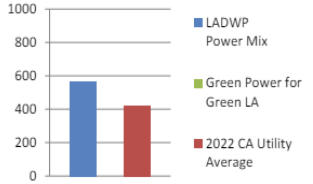
LADWP GHG Intensity Factors

2022 CO_2e Intensity Factor (lb/MWh)[1]
567

	2022 to 2045				
Resource Type	**2022 CO_2e Intensity Factor (lb/MWh)**	**2022 Power Mix**	**2045 Power Mix**	**% Change**	**2045 CO_2e Intensity Factor (lb/MWh)**
Renewables	0.0	35.6%	90%	153%	0.0
Non-Renewables	567.0	64.4%	10%	-84%	88.0
Totals	**567.0**	**100%**	**100%**	**N/A**	**88.0**

2022 POWER CONTENT LABEL
LADWP
https://www.ladwp.com/powercontent

Greenhouse Gas Emissions Intensity (lbs CO_2e/MWh)			Energy Resources	LADWP Power Mix	Green Power for Green LA	2022 CA Power Mix
LADWP Power Mix	Green Power for Green LA	2022 CA Utility Average	**Eligible Renewable**[1]	**35.6%**	**100.0%**	**35.8%**
567	0	422	Biomass & Biowaste	0.1%	0.0%	2.1%
			Geothermal	7.5%	0.0%	4.7%
			Eligible Hydroelectric	0.6%	0.0%	1.1%
			Solar	14.1%	100.0%	17.0%
			Wind	13.3%	0.0%	10.8%
			Coal	**12.6%**	**0.0%**	**2.1%**
			Large Hydroelectric	**4.0%**	**0.0%**	**9.2%**
			Natural Gas	**34.5%**	**0.0%**	**36.4%**
			Nuclear	**13.3%**	**0.0%**	**9.2%**
			Other	**0.0%**	**0.0%**	**0.1%**
			Unspecified Power[2]	**0.0%**	**0.0%**	**7.1%**
			TOTAL	**100.0%**	**100.0%**	**100.0%**
			Percentage of Retail Sales Covered by Retired Unbundled RECs[3]**:**	**3%**	**0%**	



[1]The eligible renewable percentage above does not reflect RPS compliance, which is determined using a different methodology.
[2]Unspecified power is electricity that has been purchased through open market transactions and is not traceable to a specific generation source.
[3]Renewable energy credits (RECs) are tracking instruments issued for renewable generation. Unbundled renewable energy credits (RECs) represent renewable generation that was not delivered to serve retail sales. Unbundled RECs are not reflected in the power mix or GHG emissions intensities above.
The unbundled RECs retired in association with LADWP's 2022 electricity portfolios were sourced from eligible renewable energy generators such as biomass, biowaste, geothermal, eligible hydroelectric, solar, and wind energy resources.

For specific information about this electricity portfolio, contact:	**Los Angeles Department of Water and Power 1-800-DIAL-DWP**
For general information about the Power Content Label, visit:	https://www.energy.ca.gov/programs-and-topics/programs/power-source-disclosure-program

Notes:

1. LADWP, 2022. Power Content Label
2. SB100 would require renewable energy and zero-carbon resources to supply 100 percent of electric retail sales to end-use customers by 2045. Los Angeles Department of Water and Power (LADWP) Strategic Long-Term Resource Plan (SLTRP) was developed to meet this requirement and even exceed this requirement by meeting the 100% renewables goal by 2035. To be conservative, it was assumed that LADWP's power mix would be compliant with SB100's standard schedule of 2045 due to uncertainty in assumptions made to meet the 2035 date. SB100 allows for the use of renewable energy credits which are a market-based mechanism to help meet renewable energy targets. This allows natural gas generation to help meet the 100% target if offset by the purchase of RECs. Therefore, it was assumed that natural gas could provide up to 10% of electricity generation in 2045, thus the CO_2e Intensity Factor accounts for some electricity generated from natural gas.

Appendix A-5.1: Alternative 5 Unmitigated Construction Emissions

Sepulveda Transit Corridor Project - ALTERNATIVE 5
Maximum Regional (Offsite + Onsite) Daily Emissions

						Max Day Date									
						3/1/2032	10/29/2030	10/29/2030	10/29/2030	10/29/2030	10/29/2030	10/29/2030	10/29/2030	10/29/2030	10/29/2030
						Daily Emissions (lb/day)									
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Hours per Workday**	**ROG**	**NO_x**	**CO**	**SO_x**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	0.750	7.721	16.426	0.034	1.847	0.109	1.956	0.347	0.103	0.449
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	0.687	3.447	26.112	0.045	0.922	0.122	1.045	0.203	0.118	0.321
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	0.981	26.547	25.770	0.234	10.467	0.462	10.929	2.110	0.443	2.553
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	0.747	5.783	18.116	0.047	2.040	0.170	2.210	0.354	0.161	0.515
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	2.218	15.109	56.822	0.114	1.178	0.459	1.637	0.277	0.436	0.712
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	**1.539**	**44.165**	**47.624**	**0.390**	**17.181**	**0.743**	**17.924**	**3.439**	**0.715**	**4.155**
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	2.128	14.858	56.299	0.113	1.179	0.426	1.605	0.277	0.405	0.683
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	4/15/2030	6/11/2032	7	789	20	**0.623**	**7.098**	**7.372**	**0.029**	**1.661**	**0.119**	**1.779**	**0.291**	**0.110**	**0.401**
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	6/12/2032	11/28/2033	7	535	20	0.445	6.539	5.544	0.029	1.832	0.106	1.939	0.323	0.099	0.422
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	12/1/2033	7/13/2034	7	225	20	1.704	15.171	19.437	0.040	0.719	0.224	0.943	0.171	0.206	0.378
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2.266	15.357	57.102	0.115	1.309	0.476	1.786	0.292	0.452	0.743
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	**1.624**	**48.520**	**48.609**	**0.426**	**18.877**	**0.801**	**19.678**	**3.757**	**0.770**	**4.527**
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	2.110	14.796	56.172	0.113	1.179	0.419	1.598	0.277	0.399	0.676
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	3/1/2029	2/14/2033	7	1447	20	**0.650**	**7.313**	**7.454**	**0.031**	**1.765**	**0.128**	**1.893**	**0.305**	**0.119**	**0.424**
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Slabs, Walkways, Plenum	8/23/2032	12/14/2034	7	844	20	0.451	6.801	5.595	0.032	2.050	0.109	2.159	0.354	0.102	0.455
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	1.180	10.591	21.251	0.040	0.719	0.192	0.912	0.172	0.179	0.351
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	0.765	6.868	16.402	0.026	0.651	0.109	0.760	0.146	0.102	0.248
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	0.699	3.474	26.268	0.045	0.922	0.123	1.045	0.203	0.119	0.322
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	0.757	12.877	23.316	0.118	4.575	0.248	4.823	0.939	0.238	1.177
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	0.777	6.706	18.502	0.054	2.734	0.180	2.914	0.457	0.171	0.628
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2.266	15.399	57.103	0.115	1.322	0.477	1.799	0.295	0.452	0.747
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	1.554	**44.987**	**47.792**	**0.398**	**17.249**	**0.749**	**17.998**	**3.457**	**0.721**	**4.178**
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	**2.128**	14.898	56.301	0.114	1.192	0.427	1.618	0.281	0.406	0.687
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	4/3/2029	2/19/2032	7	1053	20	0.650	**7.354**	**7.456**	**0.031**	**1.777**	**0.129**	**1.906**	**0.309**	**0.120**	**0.428**
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Slabs, Walkways, Plenum	9/23/2031	5/18/2033	7	604	20	**0.461**	7.019	5.688	0.033	2.178	0.112	2.290	0.374	0.104	0.479
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	1.196	10.653	21.336	0.040	0.726	0.198	0.924	0.173	0.185	0.358
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	1.265	14.478	30.376	0.059	2.737	0.172	2.908	0.494	0.163	0.656
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	1.183	**6.299**	**49.456**	**0.081**	**0.806**	**0.237**	**1.043**	**0.186**	**0.230**	**0.415**
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	1.120	13.093	42.170	0.126	3.550	0.290	3.839	0.732	0.280	1.012
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	**1.269**	8.183	33.085	0.064	0.882	0.303	1.186	0.181	0.287	0.468
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	1.220	10.874	21.865	0.038	0.651	0.203	0.853	0.146	0.188	0.334
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	1.709	11.944	49.062	0.084	1.142	0.353	1.494	0.246	0.334	0.581
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	1.050	**7.847**	**34.094**	**0.063**	**0.767**	**0.207**	**0.974**	**0.163**	**0.199**	**0.362**
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	1.052	**7.822**	**34.123**	**0.062**	**0.739**	**0.207**	**0.946**	**0.156**	**0.198**	**0.354**
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	10/29/2030	12/24/2030	6	49	20	1.293	**10.969**	**54.357**	**0.106**	**1.219**	**0.221**	**1.440**	**0.269**	**0.217**	**0.486**
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	1.441	11.298	54.357	0.105	1.308	0.261	1.569	0.279	0.254	0.533
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	12/20/2031	1/20/2032	6	27	20	1.280	10.930	54.219	0.106	1.219	0.219	1.439	0.269	0.216	0.485
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	**2.014**	22.021	28.199	0.058	1.272	0.275	1.546	0.282	0.255	0.537
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	1.789	14.160	33.557	0.072	1.064	0.287	1.352	0.230	0.271	0.501
Segment 6-Reach 3 Portal to MSF-Paving	7/19/2032	7/14/2033	6	310	20	0.541	2.272	10.597	0.016	0.345	0.070	0.414	0.069	0.066	0.135
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	0.708	8.030	16.244	0.038	2.750	0.098	2.848	0.493	0.093	0.586
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	0.680	3.561	26.013	0.046	1.038	0.123	1.161	0.220	0.119	0.339
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	0.959	**26.205**	**25.630**	**0.231**	**10.554**	**0.458**	**11.012**	**2.125**	**0.439**	**2.564**
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	0.745	6.004	18.093	0.049	2.272	0.172	2.444	0.388	0.163	0.551
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	1.055	8.512	38.083	0.072	1.051	0.200	1.251	0.226	0.193	0.419
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	1.386	13.944	30.681	0.051	0.934	0.222	1.155	0.199	0.208	0.407
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	1.210	6.493	49.800	0.082	0.922	0.241	1.163	0.203	0.233	0.436
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	1.248	19.719	36.669	0.157	5.459	0.359	5.819	1.108	0.345	1.453
Metro E Line Stn_U-Alt5-TBM Pass Through-Maintenance	8/1/2030	9/30/2030	6	52	20	0.400	2.526	10.723	0.022	0.288	0.093	0.381	0.054	0.089	0.143
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	**1.578**	**17.702**	**43.836**	**0.095**	**2.041**	**0.315**	**2.356**	**0.426**	**0.300**	**0.726**
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	**1.380**	13.005	14.090	0.037	0.919	0.275	1.194	0.211	0.254	0.465
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	0.990	5.837	15.152	0.027	0.564	0.093	0.656	0.132	0.087	0.219
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	1.333	13.724	30.506	0.050	0.969	0.192	1.161	0.204	0.181	0.385
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	1.197	6.462	49.643	0.082	0.922	0.240	1.162	0.203	0.232	0.435
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	1.280	**21.619**	**37.015**	**0.173**	**6.260**	**0.389**	**6.650**	**1.268**	**0.373**	**1.642**
Santa Monica Stn_U-Alt5-TBM Pass Through-Maintenance	3/1/2031	4/30/2031	6	52	20	0.397	2.518	10.692	0.022	0.288	0.093	0.380	0.054	0.088	0.142
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	**1.590**	18.282	43.983	0.099	2.373	0.323	2.696	0.481	0.307	0.788
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	1.361	13.047	14.043	0.037	1.051	0.266	1.318	0.226	0.246	0.472

Sepulveda Transit Corridor Project - ALTERNATIVE 5
Maximum Regional (Offsite + Onsite) Daily Emissions

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
						Max Day Date									
						3/1/2032	10/29/2030	10/29/2030	10/29/2030	10/29/2030	10/29/2030	10/29/2030	10/29/2030	10/29/2030	10/29/2030
						Daily Emissions (lb/day)									
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	1.295	14.059	30.434	0.054	1.781	0.178	1.960	0.337	0.169	0.506
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	1.196	**6.847**	**49.632**	**0.086**	**1.270**	**0.243**	**1.512**	**0.255**	**0.235**	**0.490**
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	1.372	**28.903**	**38.243**	**0.235**	**9.474**	**0.501**	**9.975**	**1.912**	**0.480**	**2.393**
D Line Wilshire-Westwood Stn_U-Alt5-TBM Pass Through-Maintenance	10/1/2031	11/30/2031	6	52	20	0.397	2.518	10.692	0.022	0.288	0.093	0.380	0.054	0.088	0.142
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	**1.565**	18.474	43.890	0.101	2.606	0.316	2.922	0.516	0.301	0.817
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	1.344	12.989	13.953	0.037	1.052	0.259	1.310	0.227	0.239	0.465
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	1.333	13.724	30.506	0.050	0.901	0.192	1.092	0.194	0.181	0.374
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	1.204	6.742	49.731	0.085	1.154	0.242	1.396	0.237	0.235	0.472
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	1.304	**23.045**	**37.274**	**0.185**	**6.861**	**0.412**	**7.273**	**1.389**	**0.395**	**1.783**
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	**1.547**	17.632	43.656	0.095	2.042	0.305	2.347	0.427	0.291	0.718
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	1.500	17.521	43.368	0.094	2.043	0.290	2.333	0.427	0.277	0.704
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	1.340	12.882	13.892	0.037	0.920	0.258	1.178	0.212	0.238	0.450
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	1.450	14.211	30.890	0.051	1.061	0.255	1.317	0.219	0.239	0.458
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	1.236	6.564	50.165	0.083	0.922	0.245	1.167	0.203	0.237	0.440
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	1.273	19.720	36.775	0.156	5.191	0.367	5.558	1.063	0.352	1.415
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	1.617	16.210	43.977	0.081	1.489	0.304	1.793	0.298	0.289	0.587
Ventura Blvd Stn_U-Alt5-Mobilize/Launch Reach 2 TBM	10/1/2028	1/30/2029	7	122	20	0.004	0.116	0.061	0.000	0.132	0.000	0.132	0.015	0.000	0.015
Ventura Blvd Stn_U-Alt5-Retrieve/Demob Reach 3 TBM	2/19/2032	5/18/2032	7	90	20	**0.004**	0.108	0.061	0.000	0.132	0.000	0.132	0.015	0.000	0.015
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	**1.556**	18.171	43.763	0.099	2.290	0.314	2.604	0.473	0.299	0.772
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	1.345	13.028	13.955	0.037	1.064	0.260	1.324	0.230	0.239	0.469
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	0.643	5.928	15.159	0.027	0.702	0.089	0.791	0.149	0.084	0.232
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	1.386	13.966	30.682	0.051	1.011	0.222	1.233	0.211	0.209	0.420
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	1.221	6.527	49.967	0.083	0.922	0.243	1.165	0.203	0.235	0.438
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	1.301	23.193	37.213	0.187	6.858	0.416	7.275	1.401	0.399	1.800
Sepulveda-Metro G Line Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2030	10/31/2030	6	52	20	0.400	**2.526**	**10.723**	**0.022**	**0.288**	**0.093**	**0.381**	**0.054**	**0.089**	**0.143**
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	**1.598**	**18.658**	**44.074**	**0.103**	**2.637**	**0.328**	**2.964**	**0.524**	**0.312**	**0.836**
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	**1.384**	13.155	14.153	0.038	1.064	0.276	1.340	0.230	0.255	0.485
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	1.450	14.211	30.890	0.051	0.875	0.255	1.130	0.190	0.239	0.430
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	1.221	6.527	49.967	0.083	0.922	0.243	1.165	0.203	0.235	0.438
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	1.212	16.938	36.206	0.133	4.165	0.321	4.486	0.856	0.307	1.163
Sherman Way Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2029	10/31/2029	6	52	10	0.223	1.345	5.694	0.012	0.288	0.048	0.335	0.054	0.045	0.099
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	1.632	**18.473**	**44.187**	**0.101**	**2.404**	**0.334**	**2.738**	**0.490**	**0.318**	**0.807**
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	**1.411**	**13.237**	**14.280**	**0.038**	**1.063**	**0.288**	**1.351**	**0.230**	**0.265**	**0.495**
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	0.382	3.325	8.250	0.018	0.702	0.055	0.757	0.149	0.052	0.200
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	1.287	13.605	30.348	0.050	1.004	0.171	1.176	0.210	0.162	0.372
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	1.548	9.145	59.942	0.108	1.348	0.328	1.676	0.288	0.317	0.605
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	1.966	**15.285**	**69.589**	**0.122**	**1.169**	**0.293**	**1.462**	**0.265**	**0.285**	**0.550**
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	**2.955**	23.840	81.358	0.149	1.738	0.392	2.130	0.400	0.376	0.777
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	2.047	7.475	15.620	0.040	1.322	0.130	1.452	0.274	0.123	0.397
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	0.219	2.534	5.420	0.009	0.340	0.033	0.373	0.067	0.031	0.099
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	0.234	1.429	7.561	0.015	0.455	0.047	0.503	0.085	0.045	0.130
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	0.329	2.995	10.005	0.022	0.598	0.045	0.644	0.122	0.044	0.167
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	0.286	3.008	4.107	0.008	0.339	0.041	0.381	0.067	0.038	0.106
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	**0.716**	8.154	19.062	0.062	8.571	0.149	8.720	2.562	0.143	2.705
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	**0.569**	2.629	28.041	0.050	5.390	0.096	5.486	2.595	0.095	2.691
MSF-Grading	3/1/2032	7/31/2032	6	132	10	**0.803**	4.596	34.821	0.062	2.894	0.137	3.031	1.037	0.135	1.171
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	3.757	4.179	17.467	0.039	1.271	0.100	1.371	0.270	0.096	0.366
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2.920	5.402	11.684	0.044	1.951	0.115	2.066	0.402	0.110	0.511
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	0.136	1.072	1.724	0.003	0.236	0.009	0.244	0.041	0.008	0.049
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	0.462	4.064	10.470	0.018	0.547	0.046	0.593	0.120	0.043	0.163
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	**2.664**	**29.245**	**54.177**	**0.202**	**17.412**	**0.713**	**18.125**	**3.089**	**0.673**	**3.761**
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	**1.327**	**13.801**	**41.490**	**0.082**	**1.579**	**0.221**	**1.800**	**0.339**	**0.213**	**0.552**
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	**1.326**	**13.717**	**41.487**	**0.081**	**1.553**	**0.220**	**1.773**	**0.332**	**0.211**	**0.543**
					Maximum Daily Emissions[1]	34.28	441.64	889.97	3.37	126.61	8.35	134.95	25.03	7.99	33.02
					SCAQMD Regional Significance Thresholds[2]	75	100	550	150	n/a	n/a	150	n/a	n/a	55
					Threshold Exceeded?	No	Yes	Yes	No	--	--	No	--	--	No

Notes:

1. Maximum daily emissions are based on the sum of daily emissions from individual phases whose schedules overlap.
2. SCAQMD, Air Quality Significance Thresholds, April 2019.
3. Highlighted cells indicate phases that contribute to maximum daily emissions.

Sepulveda Transit Corridor Project - ALTERNATIVE 5

Maximum Regional (Offsite + Onsite) Daily Emissions per Construction Year

	Maximum Daily Emissions (lb/day)									
Construction Year	**ROG**	**NO_X**	**CO**	**SO_X**	**PM_{10} Fugitive**	**PM_{10} Exhaust**	**PM_{10} Total**	**$PM_{2.5}$ Fugitive**	**$PM_{2.5}$ Exhaust**	**$PM_{2.5}$ Total**
2026	2.69	20.78	81.05	0.13	1.98	0.50	2.48	0.42	0.48	0.90
2027	7.27	67.59	214.67	0.45	9.63	1.41	11.04	2.02	1.34	3.37
2028	16.91	152.76	464.83	1.10	38.73	3.40	41.85	7.52	3.24	10.51
2029	25.47	338.91	706.86	2.52	95.24	6.52	101.75	18.75	6.22	24.98
2030	31.23	**441.64**	**889.97**	**3.37**	**126.61**	**8.35**	**134.95**	25.03	**7.99**	**33.02**
2031	31.76	423.63	871.97	3.03	112.98	7.74	120.35	22.27	7.40	29.31
2032	**34.28**	436.36	840.55	2.79	116.12	7.89	124.01	**25.23**	7.50	32.73
2033	30.38	288.91	545.20	1.64	63.18	5.37	68.55	12.27	5.07	17.34
2034	21.09	172.38	305.31	0.68	17.46	3.13	20.59	3.72	2.92	6.64
2035	16.04	100.71	190.95	0.44	11.40	1.90	13.29	2.45	1.78	4.23
2036	3.85	37.27	76.63	0.16	3.22	0.67	3.89	0.72	0.63	1.35
2037	1.33	13.80	41.49	0.08	1.58	0.22	1.80	0.34	0.21	0.55
Maximum Daily Emissions	**34.28**	**441.64**	**889.97**	**3.37**	**126.61**	**8.35**	**134.95**	**25.23**	**7.99**	**33.02**
SCAQMD Regional Thresholds	75	100	550	150	n/a	n/a	150	n/a	n/a	55
Threshold Exceeded?	**No**	**Yes**	**Yes**	**No**	--	--	**No**	--	--	**No**

Notes:

1. Maximum daily emissions are based on the sum of daily emissions from individual phases whose schedules overlap.
2. SCAQMD, Air Quality Significance Thresholds, April 2019.
3. Highlighted cells indicate daily maximum emissions.

Sepulveda Transit Corridor Project - ALTERNATIVE 5

Total Regional (Offsite + Onsite) Emissions per Construction Phase

						Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Hours per Workday**	**ROG**	**NO_X**	**CO**	**SO_X**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**	**CO_2**	**CH_4**	**N_2O**	**CO_2e**
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	0.03	0.30	0.65	1.34E-03	0.073	0.004	0.077	0.014	0.004	0.018	122.00	0.0034	0.0062	123.93
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	0.04	0.18	1.34	2.32E-03	0.047	0.006	0.054	0.010	0.006	0.017	223.82	0.0082	0.0035	225.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	0.05	1.38	1.34	1.22E-02	0.544	0.024	0.568	0.110	0.023	0.133	1169.88	0.0078	0.1575	1217.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	0.02	0.16	0.49	1.27E-03	0.055	0.005	0.060	0.010	0.004	0.014	119.60	0.0032	0.0066	121.65
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	0.13	0.91	3.41	6.84E-03	0.071	0.028	0.098	0.017	0.026	0.043	633.08	0.0231	0.0128	637.47
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	0.61	17.40	18.76	1.54E-01	6.769	0.293	7.062	1.355	0.282	1.637	14791.00	0.1131	1.9426	15372.71
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	0.09	0.65	2.48	4.99E-03	0.052	0.019	0.071	0.012	0.018	0.030	462.07	0.0168	0.0090	465.19
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	4/15/2030	6/11/2032	7	789	20	0.25	2.80	2.91	1.16E-02	0.655	0.047	0.702	0.115	0.043	0.158	1074.62	0.0152	0.1119	1108.34
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	6/12/2032	11/28/2033	7	535	20	0.12	1.75	1.48	7.88E-03	0.490	0.028	0.519	0.086	0.026	0.113	731.16	0.0093	0.0785	754.80
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	12/1/2033	7/13/2034	7	225	20	0.19	1.71	2.19	4.52E-03	0.081	0.025	0.106	0.019	0.023	0.042	348.40	0.0113	0.0096	351.55
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	0.14	0.94	3.48	6.99E-03	0.080	0.029	0.109	0.018	0.028	0.045	647.38	0.0236	0.0135	652.01
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	1.18	35.40	35.46	3.11E-01	13.771	0.584	14.355	2.740	0.562	3.302	29862.78	0.2125	3.9869	31056.19
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	0.09	0.67	2.53	5.09E-03	0.053	0.019	0.072	0.012	0.018	0.030	471.94	0.0171	0.0091	475.09
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	3/1/2029	2/14/2033	7	1447	20	0.47	5.29	5.39	2.22E-02	1.277	0.093	1.369	0.221	0.086	0.307	2058.98	0.0281	0.2201	2125.27
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Slabs, Walkways, Plenum	8/23/2032	12/14/2034	7	844	20	0.19	2.87	2.36	1.33E-02	0.865	0.046	0.911	0.149	0.043	0.192	1237.08	0.0147	0.1378	1278.51
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	0.23	2.08	4.18	7.85E-03	0.141	0.038	0.179	0.034	0.035	0.069	687.78	0.0229	0.0173	693.50
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	0.03	0.27	0.65	1.02E-03	0.026	0.004	0.030	0.006	0.004	0.010	91.21	0.0034	0.0013	91.70
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	0.04	0.18	1.35	2.33E-03	0.047	0.006	0.054	0.010	0.006	0.017	224.28	0.0083	0.0035	225.54
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	0.04	0.68	1.24	6.26E-03	0.242	0.013	0.256	0.050	0.013	0.062	604.36	0.0075	0.0679	624.77
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	0.01	0.09	0.24	7.06E-04	0.036	0.002	0.038	0.006	0.002	0.008	66.42	0.0016	0.0046	67.82
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	0.14	0.94	3.48	7.02E-03	0.081	0.029	0.110	0.018	0.028	0.046	649.89	0.0236	0.0139	654.64
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	0.87	25.06	26.62	2.22E-01	9.608	0.417	10.025	1.925	0.402	2.327	21310.40	0.1606	2.8092	22151.57
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	0.10	0.67	2.53	5.12E-03	0.054	0.019	0.073	0.013	0.018	0.031	474.33	0.0172	0.0095	477.59
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	4/3/2029	2/19/2032	7	1053	20	0.34	3.87	3.93	1.64E-02	0.936	0.068	1.004	0.163	0.063	0.226	1519.71	0.0204	0.1635	1568.95
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Slabs, Walkways, Plenum	9/23/2031	5/18/2033	7	604	20	0.14	2.12	1.72	1.01E-02	0.658	0.034	0.692	0.113	0.032	0.145	936.83	0.0107	0.1067	968.90
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	0.23	2.08	4.17	7.87E-03	0.142	0.039	0.181	0.034	0.036	0.070	689.45	0.0229	0.0180	695.39
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	0.05	0.55	1.15	2.23E-03	0.104	0.007	0.111	0.019	0.006	0.025	200.56	0.0059	0.0090	203.38
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	0.09	0.50	3.91	6.41E-03	0.064	0.019	0.082	0.015	0.018	0.033	616.90	0.0240	0.0062	619.35
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	0.15	1.70	5.48	1.63E-02	0.461	0.038	0.499	0.095	0.036	0.132	1584.21	0.0339	0.1237	1621.92
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	0.23	1.46	5.89	1.14E-02	0.157	0.054	0.211	0.032	0.051	0.083	1057.05	0.0395	0.0165	1062.94
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	0.09	0.84	1.69	2.95E-03	0.050	0.016	0.066	0.011	0.015	0.026	254.43	0.0094	0.0030	255.55
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	0.07	0.47	1.91	3.29E-03	0.045	0.014	0.058	0.010	0.013	0.023	316.87	0.0120	0.0045	318.51
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	0.12	0.92	3.99	7.32E-03	0.090	0.024	0.114	0.019	0.023	0.042	700.43	0.0267	0.0091	703.81
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	0.04	0.29	1.25	2.25E-03	0.027	0.008	0.035	0.006	0.007	0.013	215.78	0.0083	0.0024	216.71
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	10/29/2030	12/24/2030	6	49	20	0.03	0.27	1.33	2.60E-03	0.030	0.005	0.035	0.007	0.005	0.012	255.22	0.0093	0.0054	257.06
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	0.22	1.75	8.40	1.62E-02	0.202	0.040	0.242	0.043	0.039	0.082	1591.51	0.0575	0.0346	1603.25
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	12/20/2031	1/20/2032	6	27	20	0.02	0.15	0.73	1.43E-03	0.016	0.003	0.019	0.004	0.003	0.007	140.40	0.0051	0.0029	141.41
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	0.24	2.58	3.30	6.77E-03	0.149	0.032	0.181	0.033	0.030	0.063	564.39	0.0175	0.0199	570.77
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	0.14	1.10	2.60	5.55E-03	0.082	0.022	0.105	0.018	0.021	0.039	489.66	0.0166	0.0139	494.23
Segment 6-Reach 3 Portal to MSF-Paving	7/19/2032	7/14/2033	6	310	20	0.08	0.35	1.64	2.40E-03	0.053	0.011	0.064	0.011	0.010	0.021	236.18	0.0087	0.0035	237.45
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	0.02	0.22	0.45	1.05E-03	0.077	0.003	0.080	0.014	0.003	0.016	96.23	0.0023	0.0059	98.06
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	0.02	0.10	0.70	1.25E-03	0.028	0.003	0.031	0.006	0.003	0.009	120.05	0.0043	0.0023	120.83
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	0.02	0.68	0.67	6.01E-03	0.274	0.012	0.286	0.055	0.011	0.067	577.75	0.0039	0.0776	600.97
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	0.01	0.08	0.24	6.40E-04	0.030	0.002	0.032	0.005	0.002	0.007	60.14	0.0015	0.0036	61.25
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	0.17	1.38	6.19	1.17E-02	0.171	0.032	0.203	0.037	0.031	0.068	1142.93	0.0398	0.0299	1152.84
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	0.14	1.45	3.19	5.26E-03	0.097	0.023	0.120	0.021	0.022	0.042	466.90	0.0164	0.0116	470.76
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	0.16	0.85	6.50	1.08E-02	0.120	0.031	0.152	0.026	0.030	0.057	1035.32	0.0400	0.0128	1040.12
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	0.20	3.15	5.85	2.50E-02	0.871	0.057	0.928	0.177	0.055	0.232	2414.92	0.0377	0.2430	2488.29
Metro E Line Stn_U-Alt5-TBM Pass Through-Maintenance	8/1/2030	9/30/2030	6	52	20	0.01	0.07	0.28	5.65E-04	0.007	0.002	0.010	0.001	0.002	0.004	53.10	0.0020	0.0006	53.34
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	0.49	5.53	13.70	2.96E-02	0.638	0.098	0.736	0.133	0.094	0.227	2848.94	0.0873	0.1178	2886.23
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	0.54	5.09	5.52	1.45E-02	0.360	0.108	0.468	0.083	0.099	0.182	1180.93	0.0326	0.0562	1198.49
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	0.03	0.17	0.43	7.68E-04	0.016	0.003	0.019	0.004	0.002	0.006	71.88	0.0023	0.0022	72.60
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	0.14	1.41	3.13	5.16E-03	0.099	0.020	0.119	0.021	0.019	0.039	458.93	0.0161	0.0112	462.68
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	0.16	0.85	6.53	1.08E-02	0.121	0.031	0.153	0.027	0.030	0.057	1041.95	0.0401	0.0127	1046.74
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	0.20	3.36	5.76	2.69E-02	0.973	0.061	1.034	0.197	0.058	0.255	2594.94	0.0369	0.2748	2677.77
Santa Monica Stn_U-Alt5-TBM Pass Through-Maintenance	3/1/2031	4/30/2031	6	52	20	0.01	0.07	0.28	5.64E-04	0.007	0.002	0.010	0.001	0.002	0.004	53.06	0.0020	0.0006	53.30
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	0.49	5.67	13.63	3.08E-02	0.736	0.100	0.836	0.149	0.095	0.244	2956.47	0.0867	0.1374	2999.58
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	0.53	5.06	5.44	1.44E-02	0.407	0.103	0.511	0.088	0.095	0.183	1178.46	0.0320	0.0571	1196.28

Sepulveda Transit Corridor Project - ALTERNATIVE 5

Total Regional (Offsite + Onsite) Emissions per Construction Phase

						Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Hours per Workday**	**ROG**	**NO_X**	**CO**	**SO_X**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**	**CO_2**	**CH_4**	**N_2O**	**CO_2e**
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	0.14	1.48	3.20	5.70E-03	0.187	0.019	0.206	0.035	0.018	0.053	509.60	0.0164	0.0177	515.29
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	0.16	0.89	6.48	1.12E-02	0.166	0.032	0.197	0.033	0.031	0.064	1075.17	0.0397	0.0191	1081.86
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	0.22	4.61	6.10	3.74E-02	1.511	0.080	1.591	0.305	0.077	0.382	3609.05	0.0386	0.4312	3738.51
D Line Wilshire-Westwood Stn_U-Alt5-TBM Pass Through-Maintenance	10/1/2031	11/30/2031	6	52	20	0.01	0.07	0.28	5.64E-04	0.007	0.002	0.010	0.001	0.002	0.004	53.06	0.0020	0.0006	53.30
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	0.43	5.02	11.94	2.75E-02	0.709	0.086	0.795	0.140	0.082	0.222	2641.69	0.0759	0.1281	2681.75
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	0.52	5.03	5.41	1.44E-02	0.407	0.100	0.508	0.088	0.092	0.180	1173.52	0.0318	0.0564	1191.12
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	0.14	1.43	3.17	5.24E-03	0.094	0.020	0.114	0.020	0.019	0.039	465.65	0.0163	0.0114	469.45
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	0.22	1.23	9.05	1.54E-02	0.210	0.044	0.254	0.043	0.043	0.086	1481.65	0.0556	0.0238	1490.13
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	0.26	4.60	7.44	3.69E-02	1.369	0.082	1.451	0.277	0.079	0.356	3560.69	0.0476	0.3891	3677.83
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	0.32	3.64	9.01	1.95E-02	0.422	0.063	0.485	0.088	0.060	0.148	1876.00	0.0574	0.0768	1900.32
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	0.27	3.16	7.83	1.69E-02	0.369	0.052	0.421	0.077	0.050	0.127	1629.54	0.0498	0.0656	1650.33
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	0.52	4.99	5.38	1.42E-02	0.356	0.100	0.456	0.082	0.092	0.174	1158.80	0.0317	0.0541	1175.71
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	0.14	1.39	3.01	4.97E-03	0.103	0.025	0.128	0.021	0.023	0.045	441.00	0.0155	0.0113	444.76
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	0.22	1.16	8.83	1.46E-02	0.162	0.043	0.205	0.036	0.042	0.077	1399.83	0.0544	0.0177	1406.45
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	0.27	4.12	7.69	3.27E-02	1.085	0.077	1.162	0.222	0.074	0.296	3156.45	0.0496	0.3172	3252.22
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	0.08	0.85	2.31	4.25E-03	0.078	0.016	0.094	0.016	0.015	0.031	407.67	0.0147	0.0086	410.61
Ventura Blvd Stn_U-Alt5-Mobilize/Launch Reach 2 TBM	10/1/2028	1/30/2029	7	122	20	0.00	0.01	0.00	2.55E-05	0.008	0.000	0.008	0.001	0.000	0.001	2.44	0.0000	0.0004	2.56
Ventura Blvd Stn_U-Alt5-Retrieve/Demob Reach 3 TBM	2/19/2032	5/18/2032	7	90	20	0.00	0.00	0.00	1.80E-05	0.006	0.000	0.006	0.001	0.000	0.001	1.73	0.0000	0.0003	1.81
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	0.48	5.63	13.57	3.06E-02	0.710	0.097	0.807	0.147	0.093	0.239	2942.39	0.0863	0.1352	2984.84
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	0.52	5.05	5.41	1.45E-02	0.412	0.101	0.513	0.089	0.093	0.182	1188.41	0.0318	0.0587	1206.71
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	0.02	0.16	0.40	7.27E-04	0.019	0.002	0.021	0.004	0.002	0.006	68.17	0.0021	0.0023	68.90
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	0.15	1.47	3.22	5.33E-03	0.106	0.023	0.130	0.022	0.022	0.044	473.59	0.0166	0.0120	477.59
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	0.22	1.19	9.14	1.51E-02	0.169	0.044	0.213	0.037	0.043	0.080	1453.24	0.0563	0.0181	1460.05
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	0.27	4.78	7.67	3.86E-02	1.413	0.086	1.499	0.289	0.082	0.371	3722.39	0.0491	0.4090	3845.49
Sepulveda-Metro G Line Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2030	10/31/2030	6	52	20	0.01	0.07	0.28	5.65E-04	0.007	0.002	0.010	0.001	0.002	0.004	53.10	0.0020	0.0006	53.34
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	0.50	5.79	13.69	3.18E-02	0.819	0.102	0.920	0.163	0.097	0.260	3059.04	0.0870	0.1530	3106.81
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	0.54	5.10	5.48	1.46E-02	0.412	0.107	0.519	0.089	0.099	0.188	1199.16	0.0323	0.0604	1217.96
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	0.15	1.48	3.21	5.30E-03	0.091	0.027	0.118	0.020	0.025	0.045	470.40	0.0166	0.0121	474.42
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	0.22	1.19	9.12	1.51E-02	0.168	0.044	0.213	0.037	0.043	0.080	1449.27	0.0561	0.0181	1456.06
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	0.25	3.52	7.53	2.77E-02	0.866	0.067	0.933	0.178	0.064	0.242	2681.04	0.0488	0.2431	2754.71
Sherman Way Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2029	10/31/2029	6	52	10	0.01	0.03	0.15	3.07E-04	0.007	0.001	0.009	0.001	0.001	0.003	28.95	0.0011	0.0004	29.11
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	0.51	5.73	13.70	3.12E-02	0.745	0.104	0.849	0.152	0.098	0.250	3000.10	0.0871	0.1442	3045.26
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	0.55	5.13	5.53	1.47E-02	0.412	0.111	0.524	0.089	0.103	0.192	1205.23	0.0326	0.0613	1224.31
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	0.01	0.10	0.26	5.55E-04	0.022	0.002	0.024	0.005	0.002	0.006	52.48	0.0014	0.0025	53.28
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	0.10	1.11	2.47	4.11E-03	0.082	0.014	0.096	0.017	0.013	0.030	365.68	0.0127	0.0090	368.69
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	0.10	0.57	3.72	6.68E-03	0.084	0.020	0.104	0.018	0.020	0.037	641.27	0.0236	0.0119	645.42
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	0.24	1.85	8.42	1.48E-02	0.141	0.035	0.177	0.032	0.034	0.067	1418.63	0.0551	0.0152	1424.54
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	0.85	6.88	23.47	4.31E-02	0.502	0.113	0.615	0.116	0.109	0.224	4002.93	0.1467	0.0727	4028.26
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	0.05	0.18	0.37	9.38E-04	0.031	0.003	0.034	0.006	0.003	0.009	88.46	0.0019	0.0064	90.42
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	0.01	0.10	0.21	3.33E-04	0.013	0.001	0.014	0.003	0.001	0.004	32.83	0.0011	0.0006	33.03
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	0.01	0.07	0.39	8.05E-04	0.024	0.002	0.026	0.004	0.002	0.007	77.11	0.0026	0.0018	77.72
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	0.00	0.01	0.03	6.64E-05	0.002	0.000	0.002	0.000	0.000	0.000	6.29	0.0002	0.0002	6.37
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	0.00	0.03	0.04	8.25E-05	0.004	0.000	0.004	0.001	0.000	0.001	7.03	0.0002	0.0001	7.07
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	0.03	0.31	0.73	2.38E-03	0.330	0.006	0.336	0.099	0.005	0.104	227.97	0.0049	0.0172	233.22
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	0.01	0.07	0.73	1.31E-03	0.140	0.002	0.143	0.067	0.002	0.070	128.99	0.0050	0.0013	129.51
MSF-Grading	3/1/2032	7/31/2032	6	132	10	0.05	0.30	2.30	4.10E-03	0.191	0.009	0.200	0.068	0.009	0.077	403.48	0.0156	0.0041	405.08
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	1.47	1.63	6.83	1.52E-02	0.497	0.039	0.536	0.106	0.037	0.143	1438.86	0.0401	0.0663	1459.63
MSF-Paving	12/1/2034	1/30/2035	6	52	10	0.08	0.14	0.30	1.13E-03	0.051	0.003	0.054	0.010	0.003	0.013	109.86	0.0016	0.0110	113.18
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	0.01	0.04	0.07	1.35E-04	0.009	0.000	0.010	0.002	0.000	0.002	10.95	0.0003	0.0004	11.06
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	0.14	1.27	3.28	5.61E-03	0.171	0.014	0.186	0.038	0.014	0.051	508.17	0.0177	0.0075	510.83
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	2.08	22.88	42.39	1.58E-01	13.625	0.558	14.183	2.417	0.526	2.943	14767.04	0.2574	1.3768	15183.76
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	1.97	20.52	61.67	1.22E-01	2.346	0.329	2.675	0.504	0.316	0.820	11447.56	0.3512	0.4841	11600.59
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	1.66	17.17	51.94	1.01E-01	1.944	0.275	2.219	0.416	0.264	0.680	9538.53	0.2958	0.3914	9662.58
					Total	**27.85**	**323.75**	**660.99**	**2.12**	**77.23**	**6.09**	**83.33**	**15.36**	**5.79**	**21.15**	**200697.08**	**4.00**	**16.67**	**205765.40**

TBM Electricity Consumption	155593
Portable Office Electricity Consumption	99.4
Alternative Total	**361,457.9**
30 - Year Amortization	**12,048.6**

Notes:

1. Global warming potentials based on IPCC AR4, consistent with CARB emission inventory methods.

Sepulveda Transit Corridor Project - ALTERNATIVE 5

Regional (Offsite + Onsite) Emissions by Construction Year

		Annual Emissions (tons per year)										Annual Emissions (metric tons)			
Year	Construction Year	ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
2026	Year 1	0.219	1.886	5.787	0.010	0.159	0.040	0.198	0.033	0.038	0.071	875.87	0.03	0.02	881.93
2027	Year 2	0.850	7.788	25.657	0.054	1.113	0.169	1.282	0.234	0.162	0.395	5062.22	0.15	0.23	5135.96
2028	Year 3	1.952	18.846	58.658	0.139	4.220	0.411	4.631	0.831	0.393	1.224	13150.70	0.36	0.74	13379.93
2029	Year 4	3.092	44.846	84.503	0.334	13.641	0.824	14.465	2.672	0.787	3.459	31828.60	0.51	3.16	32783.95
2030	Year 5	4.462	63.206	128.126	0.487	18.660	1.202	19.862	3.674	1.150	4.824	46618.48	0.79	4.44	47960.43
2031	Year 6	4.722	66.143	125.598	0.469	17.918	1.204	19.122	3.527	1.149	4.676	44808.48	0.78	4.19	46076.57
2032	Year 7	4.885	55.409	106.396	0.338	13.072	1.032	14.105	2.659	0.978	3.637	31763.94	0.65	2.55	32541.15
2033	Year 8	3.561	31.283	58.732	0.146	4.861	0.592	5.453	0.963	0.556	1.519	13348.83	0.35	0.75	13580.47
2034	Year 9	2.534	19.531	34.665	0.079	2.146	0.356	2.503	0.451	0.333	0.783	7041.31	0.20	0.33	7144.58
2035	Year 10	1.242	11.420	22.919	0.049	1.062	0.207	1.269	0.233	0.194	0.427	4351.34	0.13	0.18	4408.46
2036	Year 11	0.225	2.323	6.731	0.013	0.259	0.038	0.297	0.056	0.036	0.092	1250.48	0.04	0.05	1267.14
2037	Year 12	0.103	1.070	3.215	0.006	0.122	0.017	0.139	0.026	0.016	0.043	596.83	0.02	0.03	604.81
Totals		**27.85**	**323.75**	**660.99**	**2.12**	**77.23**	**6.09**	**83.33**	**15.36**	**5.79**	**21.15**	**200697.08**	**4.00**	**16.67**	**205765.40**
												TBM Electricity Consumption			155,593.1
												Portable Office Electricity Consumption			99.4
												Alternative Total			**361,457.9**
												30 - Year Amortization			**12,048.6**

Sepulveda Transit Corridor Project - ALTERNATIVE 5

Schedule/Phasing[1] | Construction Materials[1] | Worker Trips[2,3]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Workday Duration (Hours per day)[7]	Total Demo Debris (tons)	Excavation Quantity (CY)	Soil Movement Quantity (CY)	Concrete Quantity (CY)	Paving Area (SF)	Building Area (SF)	Trip Type	Workers per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	4543	-	-	-	-	-	Worker	20	40	18.5
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	-	-	-	2020	-	-	Worker	26	52	18.5
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	-	75000	75000	-	-	-	Worker	20	40	18.5
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	-	-	-	11970	-	-	Worker	20	40	18.5
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	-	-	-	-	-	-	Worker	30	60	18.5
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	-	950000	950000	170299	-	-	Worker	24	48	18.5
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	-	-	-	-	-	-	Worker	30	60	18.5
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	4/15/2030	6/11/2032	7	789	20	-	-	-	13983	-	-	Worker	8	16	19.5
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	6/12/2032	11/28/2033	7	535	20	-	-	-	10072	-	-	Worker	10	20	19.5
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	12/1/2033	7/13/2034	7	225	20	-	-	-	-	-	-	Worker	20	40	18.5
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	-	-	-	-	-	-	Worker	30	60	18.5
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	-	1921000	1921000	-	-	-	Worker	24	48	18.5
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	-	-	-	-	-	-	Worker	30	60	18.5
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	3/1/2029	2/14/2033	7	1447	20	-	-	-	274509	-	-	Worker	8	16	18.5
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Slabs, Walkways, Plenum	8/23/2032	12/14/2034	7	844	20	-	-	-	197719	-	-	Worker	10	20	18.5
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	-	-	-	-	-	-	Worker	20	40	18.5
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	-	-	-	-	-	-	Worker	20	40	18.5
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	-	-	-	1250	-	-	Worker	26	52	18.5
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	-	29000	29000	-	-	-	Worker	20	40	18.5
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	-	-	-	14537	-	-	Worker	20	40	18.5
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	-	-	-	-	-	-	Worker	30	60	18.5
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	-	1300000	1300000	245799	-	-	Worker	24	48	18.5
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	-	-	-	-	-	-	Worker	30	60	18.5
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	4/3/2029	2/19/2032	7	1053	20	-	-	-	201824	-	-	Worker	8	16	18.5
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Slabs, Walkways, Plenum	9/23/2031	5/18/2033	7	604	20	-	-	-	145367	-	-	Worker	10	20	18.5
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	-	-	-	-	-	-	Worker	20	40	18.5
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	8042	-	-	-	-	-	Worker	20	40	18.5
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	-	-	-	-	-	-	Worker	26	52	18.5
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	-	69707	69707	-	-	-	Worker	20	40	18.5
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	-	-	-	14086	-	-	Worker	20	40	18.5
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	-	-	-	-	-	-	Worker	20	40	18.5
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	-	-	-	2572	-	-	Worker	30	60	18.5
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	-	-	-	1482	-	-	Worker	20	40	18.5
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	-	-	-	-	-	-	Worker	20	40	18.5
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	10/29/2030	12/24/2030	6	49	20	-	-	-	-	-	-	Worker	26	52	18.5
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	-	-	-	-	-	-	Worker	26	52	18.5
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	12/20/2031	1/20/2032	6	27	20	-	-	-	-	-	-	Worker	26	52	18.5
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	-	-	-	-	-	-	Worker	28	56	18.5
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	-	-	-	-	-	-	Worker	20	40	18.5
Segment 6-Reach 3 Portal to MSF-Paving	7/19/2032	7/14/2033	6	310	20	-	-	-	-	177457	-	Worker	8	16	18.5
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	6056	-	-	-	-	-	Worker	20	40	18.5
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	-	-	-	2020	-	-	Worker	26	52	18.5
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	-	150000	150000	-	-	-	Worker	20	40	18.5
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	-	-	-	6993	-	-	Worker	20	40	18.5
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	-	-	-	-	-	-	Worker	20	40	18.5
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	1250	-	-	-	-	-	Worker	20	40	18.5
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	-	-	-	2380	-	-	Worker	26	52	18.5
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	-	120000	120000	-	-	-	Worker	20	40	18.5
Metro E Line Stn_U-Alt5-TBM Pass Through-Maintenance	8/1/2030	9/30/2030	6	52	20	-	-	-	-	-	-	Worker	6	12	18.5
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	-	-	-	40000	-	-	Worker	30	60	18.5
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	-	-	-	-	-	-	Worker	20	40	18.5
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	-	-	-	-	58043	-	Worker	14	28	18.5

Sepulveda Transit Corridor Project - ALTERNATIVE 5

Schedule/Phasing[1]						Material/Soil Haul Trucks[5]				Precast Concrete Structures Haul Trucks[5]			
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Workday Duration (Hours per day)[7]**	**Trip Type**	**Round Trips per Day**	**Total One-Way Trips per Day**	**One-Way Trip Length (mi)**	**Trip Type**	**Round Trips per Day**	**Total One-Way Trips per Day**	**One-Way Trip Length (mi)**
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	Haul	4	8	32.5	Haul	-	-	16.0
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	Haul	-	-	32.5	Haul	-	-	16.0
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	Haul	98	196	32.5	Haul	-	-	16.0
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	Haul	-	-	32.5	Haul	-	-	16.0
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	Haul	4	8	32.5	Haul	-	-	16.0
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	Haul	154	308	32.5	Haul	16	32	16.0
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	Haul	4	8	32.5	Haul	-	-	16.0
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	4/15/2030	6/11/2032	7	789	20	Haul	4	8	32.5	Haul	-	-	16.0
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	6/12/2032	11/28/2033	7	535	20	Haul	4	8	32.5	Haul	-	-	16.0
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	12/1/2033	7/13/2034	7	225	20	Haul	2	4	32.5	Haul	-	-	16.0
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	Haul	4	8	32.5	Haul	-	-	6.0
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	Haul	174	348	32.5	Haul	16	32	6.0
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	Haul	4	8	32.5	Haul	-	-	6.0
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	3/1/2029	2/14/2033	7	1447	20	Haul	4	8	32.5	Haul	-	-	6.0
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Slabs, Walkways, Plenum	8/23/2032	12/14/2034	7	844	20	Haul	4	8	32.5	Haul	-	-	6.0
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	Haul	2	4	32.5	Haul	-	-	6.0
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	Haul	-	-	34.3	Haul	-	-	2.0
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	Haul	-	-	34.3	Haul	-	-	2.0
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	Haul	38	76	34.3	Haul	-	-	2.0
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	Haul	-	-	34.3	Haul	-	-	2.0
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	Haul	4	8	34.3	Haul	-	-	2.0
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	Haul	154	308	34.3	Haul	16	32	2.0
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	Haul	4	8	34.3	Haul	-	-	2.0
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	4/3/2029	2/19/2032	7	1053	20	Haul	4	8	34.3	Haul	-	-	2.0
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Slabs, Walkways, Plenum	9/23/2031	5/18/2033	7	604	20	Haul	4	8	34.3	Haul	-	-	2.0
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	Haul	2	4	34.3	Haul	-	-	2.0
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	Haul	6	12	34.3	Haul	-	-	2.0
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	Haul	-	-	34.3	Haul	-	-	2.0
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	Haul	28	56	34.3	Haul	-	-	2.0
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	Haul	-	-	34.3	Haul	-	-	2.0
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	Haul	-	-	34.3	Haul	-	-	2.0
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	Haul	-	-	34.3	Haul	-	-	2.0
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	Haul	-	-	34.3	Haul	-	-	2.0
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	Haul	-	-	34.3	Haul	2	4	2.0
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	10/29/2030	12/24/2030	6	49	20	Haul	4	8	34.3	Haul	-	-	2.0
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	Haul	4	8	34.3	Haul	2	4	2.0
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	12/20/2031	1/20/2032	6	27	20	Haul	4	8	34.3	Haul	-	-	2.0
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	Haul	4	8	34.3	Haul	-	-	2.0
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	Haul	4	8	34.3	Haul	-	-	2.0
Segment 6-Reach 3 Portal to MSF-Paving	7/19/2032	7/14/2033	6	310	20	Haul	-	-	34.3	Haul	-	-	2.0
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	Haul	6	12	32.5	Haul	-	-	16.0
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	Haul	-	-	32.5	Haul	-	-	16.0
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	Haul	98	196	32.5	Haul	-	-	16.0
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	Haul	-	-	32.5	Haul	-	-	16.0
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	Haul	4	8	32.5	Haul	-	-	16.0
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	Haul	2	4	32.5	Haul	-	-	16.0
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	Haul	-	-	32.5	Haul	-	-	16.0
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	Haul	48	96	32.5	Haul	-	-	16.0
Metro E Line Stn_U-Alt5-TBM Pass Through-Maintenance	8/1/2030	9/30/2030	6	52	20	Haul	-	-	32.5	Haul	-	-	16.0
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	Haul	8	16	32.5	Haul	-	-	16.0
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	Haul	4	8	32.5	Haul	-	-	16.0
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	Haul	2	4	32.5	Haul	-	-	16.0

Sepulveda Transit Corridor Project - ALTERNATIVE 5

Schedule/Phasing[1]						Concrete Truck Deliveries[4]				Water Trucks[6]			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Workday Duration (Hours per day)[7]	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	Concrete	-	-	10.2	Water	3	6	2.0
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	Concrete	2	4	10.2	Water	3	6	2.0
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	Concrete	-	-	10.2	Water	3	6	2.0
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	Concrete	24	48	10.2	Water	3	6	2.0
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	Concrete	-	-	10.2	Water	-	-	2.0
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	Concrete	-	-	10.2	Water	-	-	2.0
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	Concrete	-	-	10.2	Water	-	-	2.0
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	4/15/2030	6/11/2032	7	789	20	Concrete	18	36	10.2	Water	-	-	2.0
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	6/12/2032	11/28/2033	7	535	20	Concrete	20	40	10.2	Water	-	-	2.0
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	12/1/2033	7/13/2034	7	225	20	Concrete	-	-	10.2	Water	-	-	2.0
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	Concrete	-	-	10.2	Water	3	6	2.0
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	Concrete	-	-	10.2	Water	-	-	2.0
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	Concrete	-	-	10.2	Water	-	-	2.0
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	3/1/2029	2/14/2033	7	1447	20	Concrete	20	40	10.2	Water	-	-	2.0
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Slabs, Walkways, Plenum	8/23/2032	12/14/2034	7	844	20	Concrete	24	48	10.2	Water	-	-	2.0
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	Concrete	-	-	10.2	Water	-	-	2.0
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	Concrete	-	-	10.2	Water	3	6	2.0
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	Concrete	2	4	10.2	Water	3	6	2.0
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	Concrete	-	-	10.2	Water	3	6	2.0
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	Concrete	36	72	10.2	Water	3	6	2.0
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	Concrete	-	-	10.2	Water	3	6	2.0
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	Concrete	-	-	10.2	Water	-	-	2.0
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	Concrete	-	-	10.2	Water	-	-	2.0
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	4/3/2029	2/19/2032	7	1053	20	Concrete	20	40	10.2	Water	-	-	2.0
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Slabs, Walkways, Plenum	9/23/2031	5/18/2033	7	604	20	Concrete	26	52	10.2	Water	-	-	2.0
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	Concrete	-	-	10.2	Water	-	-	2.0
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	Concrete	-	-	10.2	Water	3	6	2.0
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	Concrete	-	-	10.2	Water	3	6	2.0
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	Concrete	-	-	10.2	Water	3	6	2.0
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	Concrete	4	8	10.2	Water	3	6	2.0
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	Concrete	-	-	10.2	Water	3	6	2.0
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	Concrete	4	8	10.2	Water	3	6	2.0
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	Concrete	2	4	10.2	Water	3	6	2.0
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	Concrete	-	-	10.2	Water	3	6	2.0
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	10/29/2030	12/24/2030	6	49	20	Concrete	-	-	10.2	Water	3	6	2.0
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	Concrete	-	-	10.2	Water	3	6	2.0
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	12/20/2031	1/20/2032	6	27	20	Concrete	-	-	10.2	Water	3	6	2.0
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	Concrete	-	-	10.2	Water	3	6	2.0
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	Concrete	-	-	10.2	Water	3	6	2.0
Segment 6-Reach 3 Portal to MSF-Paving	7/19/2032	7/14/2033	6	310	20	Concrete	-	-	11.2	Water	3	6	3.0
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	Concrete	-	-	10.2	Water	3	6	2.0
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	Concrete	4	8	10.2	Water	3	6	2.0
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	Concrete	-	-	10.2	Water	3	6	2.0
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	Concrete	28	56	10.2	Water	3	6	2.0
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	Concrete	-	-	10.2	Water	3	6	2.0
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	Concrete	-	-	10.2	Water	3	6	2.0
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	Concrete	2	4	10.2	Water	3	6	2.0
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	Concrete	-	-	10.2	Water	3	6	2.0
Metro E Line Stn_U-Alt5-TBM Pass Through-Maintenance	8/1/2030	9/30/2030	6	52	20	Concrete	-	-	10.2	Water	3	6	2.0
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	Concrete	8	16	10.2	Water	-	-	2.0
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	Concrete	-	-	10.2	Water	-	-	2.0
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	Concrete	-	-	10.2	Water	-	-	2.0

Sepulveda Transit Corridor Project - ALTERNATIVE 5

Schedule/Phasing[1] | Construction Materials[1] | Worker Trips[2,3]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Workday Duration (Hours per day)[7]	Total Demo Debris (tons)	Excavation Quantity (CY)	Soil Movement Quantity (CY)	Concrete Quantity (CY)	Paving Area (SF)	Building Area (SF)	Trip Type	Workers per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	1752	-	-	-	-	-	Worker	20	40	18.5
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	-	-	-	2940	-	-	Worker	26	52	18.5
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	-	130000	130000	-	-	-	Worker	20	40	18.5
Santa Monica Stn_U-Alt5-TBM Pass Through-Maintenance	3/1/2031	4/30/2031	6	52	20	-	-	-	-	-	-	Worker	6	12	18.5
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	-	-	-	42000	-	-	Worker	30	60	18.5
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	-	-	-	-	-	-	Worker	20	40	18.5
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	11073	-	-	-	-	-	Worker	20	40	18.5
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	-	-	-	20120	-	-	Worker	26	52	18.5
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	-	220000	220000	-	-	-	Worker	20	40	18.5
D Line Wilshire-Westwood Stn_U-Alt5-TBM Pass Through-Maintenance	10/1/2031	11/30/2031	6	52	20	-	-	-	-	-	-	Worker	6	12	18.5
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	-	-	-	56000	-	-	Worker	30	60	18.5
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	-	-	-	-	-	-	Worker	20	40	18.5
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	756	-	-	-	-	-	Worker	20	40	18.5
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	-	-	-	17530	-	-	Worker	26	52	18.5
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	-	185000	185000	-	-	-	Worker	20	40	18.5
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	-	-	-	29881	-	-	Worker	30	60	18.5
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	-	-	-	26119	-	-	Worker	30	60	18.5
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	-	-	-	-	-	-	Worker	20	40	18.5
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	2877	-	-	-	-	-	Worker	20	40	18.5
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	-	-	-	2940	-	-	Worker	26	52	18.5
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	-	140000	140000	-	-	-	Worker	20	40	18.5
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	-	-	-	10000	-	-	Worker	30	60	18.5
Ventura Blvd Stn_U-Alt5-Mobilize/Launch Reach 2 TBM	10/1/2028	1/30/2029	7	122	20	-	-	-	-	-	-	Worker	-	-	18.5
Ventura Blvd Stn_U-Alt5-Retrieve/Demob Reach 3 TBM	2/19/2032	5/18/2032	7	90	20	-	-	-	-	-	-	Worker	-	-	18.5
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	-	-	-	30000	-	-	Worker	30	60	18.5
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	-	-	-	-	-	-	Worker	20	40	18.5
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	-	-	-	-	721	-	Worker	14	28	18.5
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	2343	-	-	-	-	-	Worker	20	40	18.5
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	-	-	-	5140	-	-	Worker	26	52	18.5
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	-	247100	247100	-	-	-	Worker	20	40	18.5
Sepulveda-Metro G Line Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2030	10/31/2030	6	52	20	-	-	-	-	-	-	Worker	6	12	18.5
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	-	-	-	63160	-	-	Worker	30	60	18.5
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	-	-	-	-	-	-	Worker	20	40	18.5
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	274	-	-	-	-	-	Worker	20	40	18.5
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	-	-	-	2970	-	-	Worker	26	52	18.5
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	-	140800	140800	-	-	-	Worker	20	40	18.5
Sherman Way Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2029	10/31/2029	6	52	10	-	-	-	-	-	-	Worker	6	12	18.5
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	-	-	-	44470	-	-	Worker	30	60	18.5
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	-	-	-	-	-	-	Worker	20	40	18.5
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	-	-	-	-	770	-	Worker	14	28	18.5
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	1732	-	-	-	-	-	Worker	20	40	18.5
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	-	565	565	2800	-	-	Worker	30	60	18.5
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	-	-	-	672	-	-	Worker	36	72	18.5
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	-	-	-	2987	-	-	Worker	46	92	18.5
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	-	-	-	-	185128	-	Worker	14	28	18.5
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	-	158	158	-	-	-	Worker	8	16	18.5
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	-	-	-	234	-	-	Worker	8	16	18.5
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	-	-	-	-	-	-	Worker	10	20	18.5
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	-	-	-	-	-	-	Worker	8	16	18.5
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	19035	-	-	-	-	-	Worker	16	32	18.5
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	-	-	-	-	-	-	Worker	18	36	18.5
MSF-Grading	3/1/2032	7/31/2032	6	132	10	-	-	-	-	-	-	Worker	20	40	18.5
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	-	-	-	6215	-	268800	Worker	24	48	18.5
MSF-Paving	12/1/2034	1/30/2035	6	52	10	-	-	-	-	385070	-	Worker	16	32	18.5
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	-	-	-	-	-	-	Worker	4	8	18.5
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	-	-	-	-	-	-	Worker	16	32	18.5

Sepulveda Transit Corridor Project - ALTERNATIVE 5

Schedule/Phasing[1]						Material/Soil Haul Trucks[5]				Precast Concrete Structures Haul Trucks[5]			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Workday Duration (Hours per day)[7]	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	Haul	2	4	32.5	Haul	-	-	16.0
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	Haul	-	-	32.5	Haul	-	-	16.0
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	Haul	56	112	32.5	Haul	-	-	16.0
Santa Monica Stn_U-Alt5-TBM Pass Through-Maintenance	3/1/2031	4/30/2031	6	52	20	Haul	-	-	32.5	Haul	-	-	16.0
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	Haul	10	20	32.5	Haul	-	-	16.0
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	Haul	4	8	32.5	Haul	-	-	16.0
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	Haul	4	8	32.5	Haul	-	-	16.0
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	Haul	-	-	32.5	Haul	-	-	16.0
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	Haul	88	176	32.5	Haul	-	-	16.0
D Line Wilshire-Westwood Stn_U-Alt5-TBM Pass Through-Maintenance	10/1/2031	11/30/2031	6	52	20	Haul	-	-	32.5	Haul	-	-	16.0
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	Haul	10	20	32.5	Haul	-	-	16.0
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	Haul	4	8	32.5	Haul	-	-	16.0
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	Haul	2	4	32.5	Haul	-	-	16.0
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	Haul	-	-	32.5	Haul	-	-	16.0
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	Haul	62	124	32.5	Haul	-	-	16.0
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	Haul	8	16	32.5	Haul	-	-	16.0
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	Haul	8	16	32.5	Haul	-	-	16.0
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	Haul	4	8	32.5	Haul	-	-	16.0
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	Haul	2	4	34.3	Haul	-	-	6.0
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	Haul	-	-	34.3	Haul	-	-	6.0
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	Haul	44	88	34.3	Haul	-	-	6.0
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	Haul	-	-	34.3	Haul	-	-	6.0
Ventura Blvd Stn_U-Alt5-Mobilize/Launch Reach 2 TBM	10/1/2028	1/30/2029	7	122	20	Haul	-	-	34.3	Haul	-	-	6.0
Ventura Blvd Stn_U-Alt5-Retrieve/Demob Reach 3 TBM	2/19/2032	5/18/2032	7	90	20	Haul	-	-	34.3	Haul	-	-	6.0
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	Haul	10	20	34.3	Haul	-	-	6.0
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	Haul	4	8	34.3	Haul	-	-	6.0
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	Haul	2	4	34.3	Haul	-	-	6.0
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	Haul	2	4	34.3	Haul	-	-	6.0
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	Haul	-	-	34.3	Haul	-	-	6.0
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	Haul	60	120	34.3	Haul	-	-	6.0
Sepulveda-Metro G Line Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2030	10/31/2030	6	52	20	Haul	-	-	34.3	Haul	-	-	6.0
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	Haul	10	20	34.3	Haul	-	-	6.0
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	Haul	4	8	34.3	Haul	-	-	6.0
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	Haul	2	4	34.3	Haul	-	-	2.0
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	Haul	-	-	34.3	Haul	-	-	2.0
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	Haul	34	68	34.3	Haul	-	-	2.0
Sherman Way Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2029	10/31/2029	6	52	10	Haul	-	-	34.3	Haul	-	-	2.0
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	Haul	10	20	34.3	Haul	-	-	2.0
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	Haul	4	8	34.3	Haul	-	-	2.0
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	Haul	2	4	34.3	Haul	-	-	2.0
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	Haul	2	4	34.3	Haul	-	-	6.0
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	Haul	2	4	34.3	Haul	-	-	6.0
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	Haul	-	-	34.3	Haul	2	4	6.0
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	Haul	4	8	34.3	Haul	-	-	6.0
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	Haul	8	16	34.3	Haul	-	-	6.0
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	Haul	-	-	34.3	Haul	-	-	6.0
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	Haul	-	-	34.3	Haul	-	-	6.0
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	Haul	2	4	34.3	Haul	-	-	6.0
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	Haul	-	-	34.3	Haul	-	-	6.0
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	Haul	14	28	32.5	Haul	-	-	16.0
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	Haul	-	-	32.5	Haul	-	-	16.0
MSF-Grading	3/1/2032	7/31/2032	6	132	10	Haul	-	-	32.5	Haul	-	-	16.0
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	Haul	4	8	32.5	Haul	-	-	16.0
MSF-Paving	12/1/2034	1/30/2035	6	52	10	Haul	14	28	32.5	Haul	-	-	16.0
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	Haul	-	-	32.5	Haul	-	-	16.0
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	Haul	-	-	32.5	Haul	-	-	16.0

Sepulveda Transit Corridor Project - ALTERNATIVE 5

Schedule/Phasing[1] | Concrete Truck Deliveries[4] | Water Trucks[6]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Workday Duration (Hours per day)[7]	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	Concrete	-	-	10.2	Water	3	6	2.0
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	Concrete	2	4	10.2	Water	3	6	2.0
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	Concrete	-	-	10.2	Water	3	6	2.0
Santa Monica Stn_U-Alt5-TBM Pass Through-Maintenance	3/1/2031	4/30/2031	6	52	20	Concrete	-	-	10.2	Water	3	6	2.0
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	Concrete	8	16	10.2	Water	3	6	2.0
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	Concrete	-	-	10.2	Water	3	6	2.0
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	Concrete	-	-	10.2	Water	3	6	2.0
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	Concrete	8	16	10.2	Water	3	6	2.0
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	Concrete	-	-	10.2	Water	3	6	2.0
D Line Wilshire-Westwood Stn_U-Alt5-TBM Pass Through-Maintenance	10/1/2031	11/30/2031	6	52	20	Concrete	-	-	10.2	Water	3	6	2.0
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	Concrete	12	24	10.2	Water	3	6	2.0
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	Concrete	-	-	10.2	Water	3	6	2.0
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	Concrete	-	-	10.2	Water	3	6	2.0
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	Concrete	6	12	10.2	Water	3	6	2.0
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	Concrete	-	-	10.2	Water	3	6	2.0
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	Concrete	8	16	10.2	Water	-	-	2.0
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	Concrete	8	16	10.2	Water	-	-	2.0
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	Concrete	-	-	10.2	Water	-	-	2.0
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	Concrete	-	-	10.2	Water	3	6	2.0
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	Concrete	2	4	10.2	Water	3	6	2.0
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	Concrete	-	-	10.2	Water	3	6	2.0
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	Concrete	10	20	10.2	Water	3	6	2.0
Ventura Blvd Stn_U-Alt5-Mobilize/Launch Reach 2 TBM	10/1/2028	1/30/2029	7	122	20	Concrete	-	-	10.2	Water	3	6	2.0
Ventura Blvd Stn_U-Alt5-Retrieve/Demob Reach 3 TBM	2/19/2032	5/18/2032	7	90	20	Concrete	-	-	10.2	Water	3	6	2.0
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	Concrete	6	12	10.2	Water	3	6	2.0
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	Concrete	-	-	10.2	Water	3	6	2.0
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	Concrete	-	-	10.2	Water	3	6	2.0
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	Concrete	-	-	10.2	Water	3	6	2.0
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	Concrete	2	4	10.2	Water	3	6	2.0
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	Concrete	-	-	10.2	Water	3	6	2.0
Sepulveda-Metro G Line Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2030	10/31/2030	6	52	20	Concrete	-	-	10.2	Water	3	6	2.0
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	Concrete	12	24	10.2	Water	3	6	2.0
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	Concrete	-	-	10.2	Water	3	6	2.0
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	Concrete	-	-	10.2	Water	3	6	2.0
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	Concrete	2	4	10.2	Water	3	6	2.0
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	Concrete	-	-	10.2	Water	3	6	2.0
Sherman Way Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2029	10/31/2029	6	52	10	Concrete	-	-	10.2	Water	3	6	2.0
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	Concrete	8	16	10.2	Water	3	6	2.0
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	Concrete	-	-	10.2	Water	3	6	2.0
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	Concrete	-	-	10.2	Water	3	6	2.0
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	Concrete	-	-	10.2	Water	3	6	2.0
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	Concrete	4	8	10.2	Water	3	6	2.0
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	Concrete	-	-	10.2	Water	3	6	2.0
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	Concrete	-	-	10.2	Water	3	6	2.0
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	Concrete	-	-	10.2	Water	3	6	2.0
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	Concrete	-	-	10.2	Water	3	6	2.0
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	Concrete	2	4	10.2	Water	3	6	2.0
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	Concrete	-	-	10.2	Water	3	6	2.0
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	Concrete	-	-	10.2	Water	3	6	2.0
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	Concrete	-	-	10.2	Water	3	6	2.0
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	Concrete	-	-	10.2	Water	3	6	2.0
MSF-Grading	3/1/2032	7/31/2032	6	132	10	Concrete	-	-	10.2	Water	3	6	2.0
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	Concrete	2	4	10.2	Water	3	6	2.0
MSF-Paving	12/1/2034	1/30/2035	6	52	10	Concrete	-	-	10.2	Water	3	6	2.0
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	Concrete	-	-	10.2	Water	3	6	2.0
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	Concrete	-	-	10.2	Water	3	6	2.0

Sepulveda Transit Corridor Project - ALTERNATIVE 5

Schedule/Phasing[1]						Construction Materials[1]						Worker Trips[2,3]			
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Workday Duration (Hours per day)[7]**	**Total Demo Debris (tons)**	**Excavation Quantity (CY)**	**Soil Movement Quantity (CY)**	**Concrete Quantity (CY)**	**Paving Area (SF)**	**Building Area (SF)**	**Trip Type**	**Workers per Day**	**Total One-Way Trips per Day**	**One-Way Trip Length (mi)**
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	-	-	-	855196	-	-	Worker	38	76	18.5
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	-	-	-	-	-	-	Worker	24	48	18.5
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	-	-	-	-	-	-	Worker	24	48	18.5

Notes:

1. Phasing and material data provided by STCP team and based on structural designs.
2. Number of workers evaluated using CalEEMod methodology of 1.25 workers piece of equipment.
3. Worker trip length based on CalEEMod default value.
4. Concrete truck trip length based on CalEEMod default value for vendors.
5. Haul trips lengths based on project-specific data.
6. It was assumed water trucks would make 3 passes per day for ground/soil disturbing activities.
7. Daily workday hours account for safety meetings and lunch breaks.

Sepulveda Transit Corridor Project - ALTERNATIVE 5

Schedule/Phasing[1]						Material/Soil Haul Trucks[5]				Precast Concrete Structures Haul Trucks[5]			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Workday Duration (Hours per day)[7]	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	Haul	54	108	32.5	Haul	-	-	16.0
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	Haul	8	16	34.3	Haul	-	-	16.0
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	Haul	8	16	32.5	Haul	-	-	16.0

Notes:

1. Phasing and material data provided by STCP team and based on structural designs.
2. Number of workers evaluated using CalEEMod methodology of 1.25 workers piece of equipment.
3. Worker trip length based on CalEEMod default value.
4. Concrete truck trip length based on CalEEMod default value for vendors.
5. Haul trips lengths based on project-specific data.
6. It was assumed water trucks would make 3 passes per day for ground/soil disturbing activities.
7. Daily workday hours account for safety meetings and lunch breaks.

Sepulveda Transit Corridor Project - ALTERNATIVE 5

Schedule/Phasing[1] **Concrete Truck Deliveries[4]** **Water Trucks[6]**

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Workday Duration (Hours per day)[7]	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	Concrete	-	-	10.2	Water	3	6	2.0
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	Concrete	-	-	10.2	Water	3	6	2.0
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	Concrete	-	-	10.2	Water	3	6	2.0

Notes:

1. Phasing and material data provided by STCP team and based on structural designs.
2. Number of workers evaluated using CalEEMod methodology of 1.25 workers piece of equipment.
3. Worker trip length based on CalEEMod default value.
4. Concrete truck trip length based on CalEEMod default value for vendors.
5. Haul trips lengths based on project-specific data.
6. It was assumed water trucks would make 3 passes per day for ground/soil disturbing activities.
7. Daily workday hours account for safety meetings and lunch breaks.

Sepulveda Transit Corridor Project - ALTERNATIVE 5

Off-Road Equipment Fleet

Phase Name (if applicable)	Equipment Type (Cranes, Bulldozer, etc.)	Quantity	Daily Usage (hours)	Fuel Type
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	Air Compressors	1	7.5	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	Concrete/Industrial Saws	2	7.5	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	Rough Terrain Forklifts	1	7.5	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	Skid Steer Loaders	2	7.5	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	Tractors/Loaders/Backhoes	2	7.5	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	Bore/Drill Rigs	2	7.5	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	Cranes	2	7.5	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	Pumps	2	7.5	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	Rough Terrain Forklifts	2	7.5	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	Tractors/Loaders/Backhoes	2	7.5	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	Cranes	2	7.5	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	Excavators	2	7.5	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	Rough Terrain Forklifts	2	7.5	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	Tractors/Loaders/Backhoes	2	7.5	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	Cranes	2	7.5	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	Generator Sets	2	7.5	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	Pumps	2	7.5	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	Rough Terrain Forklifts	2	7.5	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	Cranes	4	15	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	Generator Sets	2	15	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	Pumps	2	15	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	Tractors/Loaders/Backhoes	2	15	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	Welders	2	15	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	Aerial Lifts	2	15	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	Cranes	2	15	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	Rough Terrain Forklifts	2	15	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	Tunnel Boring Machine (TBM)	1	15	Electric
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	Tractors/Loaders/Backhoes	2	15	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	Cranes	4	15	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	Generator Sets	2	15	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	Pumps	2	15	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	Tractors/Loaders/Backhoes	2	15	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	Welders	2	15	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	Aerial Lifts	1	15	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	Air Compressors	1	15	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	Rollers	1	15	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	Aerial Lifts	2	15	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	Cement and Mortar Mixers	2	15	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	Aerial Lifts	1	15	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	Air Compressors	2	15	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	Generator Sets	2	15	Diesel
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	Welders	3	15	Diesel
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	Cranes	4	15	Diesel
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	Generator Sets	2	15	Diesel
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	Pumps	2	15	Diesel
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	Tractors/Loaders/Backhoes	2	15	Diesel
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	Welders	2	15	Diesel
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	Aerial Lifts	2	15	Diesel
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	Cranes	2	15	Diesel
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	Rough Terrain Forklifts	2	15	Diesel
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	Tunnel Boring Machine (TBM)	1	15	Electric
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	Tractors/Loaders/Backhoes	2	15	Diesel
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	Cranes	4	15	Diesel
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	Generator Sets	2	15	Diesel
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	Pumps	2	15	Diesel
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	Tractors/Loaders/Backhoes	2	15	Diesel
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	Welders	2	15	Diesel
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	Aerial Lifts	1	15	Diesel
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	Air Compressors	1	15	Diesel
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	Rollers	1	15	Diesel
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Slabs, Walkways, Plenum	Aerial Lifts	2	15	Diesel
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Slabs, Walkways, Plenum	Cement and Mortar Mixers	2	15	Diesel
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	Aerial Lifts	2	15	Diesel
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	Air Compressors	2	15	Diesel
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	Generator Sets	2	15	Diesel
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	Rough Terrain Forklifts	2	15	Diesel
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	Air Compressors	1	7.5	Diesel
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	Concrete/Industrial Saws	2	7.5	Diesel
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	Rough Terrain Forklifts	1	7.5	Diesel
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	Skid Steer Loaders	2	7.5	Diesel
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	Tractors/Loaders/Backhoes	2	7.5	Diesel

Sepulveda Transit Corridor Project - ALTERNATIVE 5

Off-Road Equipment Fleet

Phase Name (if applicable)	Equipment Type (Cranes, Bulldozer, etc.)	Quantity	Daily Usage (hours)	Fuel Type
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	Bore/Drill Rigs	2	7.5	Diesel
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	Cranes	2	7.5	Diesel
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	Pumps	2	7.5	Diesel
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	Rough Terrain Forklifts	2	7.5	Diesel
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	Tractors/Loaders/Backhoes	2	7.5	Diesel
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	Cranes	2	7.5	Diesel
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	Excavators	2	7.5	Diesel
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	Rough Terrain Forklifts	2	7.5	Diesel
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	Tractors/Loaders/Backhoes	2	7.5	Diesel
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	Cranes	2	7.5	Diesel
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	Generator Sets	2	7.5	Diesel
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	Pumps	2	7.5	Diesel
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	Rough Terrain Forklifts	2	7.5	Diesel
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	Cranes	4	15	Diesel
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	Generator Sets	2	15	Diesel
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	Pumps	2	15	Diesel
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	Tractors/Loaders/Backhoes	2	15	Diesel
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	Welders	2	15	Diesel
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	Aerial Lifts	2	15	Diesel
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	Cranes	2	15	Diesel
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	Rough Terrain Forklifts	2	15	Diesel
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	Tunnel Boring Machine (TBM)	1	15	Electric
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	Tractors/Loaders/Backhoes	2	15	Diesel
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	Cranes	4	15	Diesel
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	Generator Sets	2	15	Diesel
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	Pumps	2	15	Diesel
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	Tractors/Loaders/Backhoes	2	15	Diesel
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	Welders	2	15	Diesel
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	Aerial Lifts	1	15	Diesel
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	Air Compressors	1	15	Diesel
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	Rollers	1	15	Diesel
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Slabs, Walkways, Plenum	Aerial Lifts	2	15	Diesel
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Slabs, Walkways, Plenum	Cement and Mortar Mixers	2	15	Diesel
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	Aerial Lifts	2	15	Diesel
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	Air Compressors	2	15	Diesel
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	Generator Sets	2	15	Diesel
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	Rough Terrain Forklifts	2	15	Diesel
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	Air Compressors	1	15	Diesel
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	Concrete/Industrial Saws	2	15	Diesel
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	Rough Terrain Forklifts	1	15	Diesel
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	Skid Steer Loaders	2	15	Diesel
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	Tractors/Loaders/Backhoes	2	15	Diesel
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	Bore/Drill Rigs	2	15	Diesel
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	Cranes	2	15	Diesel
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	Pumps	2	15	Diesel
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	Rough Terrain Forklifts	2	15	Diesel
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	Tractors/Loaders/Backhoes	2	15	Diesel
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	Cranes	2	15	Diesel
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	Excavators	2	15	Diesel
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	Rough Terrain Forklifts	2	15	Diesel
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	Tractors/Loaders/Backhoes	2	15	Diesel
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	Cranes	2	15	Diesel
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	Generator Sets	2	15	Diesel
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	Pumps	2	15	Diesel
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	Rough Terrain Forklifts	2	15	Diesel
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	Aerial Lifts	2	15	Diesel
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	Generator Sets	2	15	Diesel
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	Rough Terrain Forklifts	2	15	Diesel
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	Welders	2	15	Diesel
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	Aerial Lifts	2	15	Diesel
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	Bore/Drill Rigs	2	15	Diesel
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	Cranes	2	15	Diesel
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	Pumps	2	15	Diesel
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	Rollers	2	15	Diesel
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	Rough Terrain Forklifts	2	15	Diesel
Segment 6-Reach 3 Portal to MSF-AG-Columns	Aerial Lifts	2	15	Diesel
Segment 6-Reach 3 Portal to MSF-AG-Columns	Cranes	2	15	Diesel
Segment 6-Reach 3 Portal to MSF-AG-Columns	Pumps	2	15	Diesel
Segment 6-Reach 3 Portal to MSF-AG-Columns	Rough Terrain Forklifts	2	15	Diesel
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	Aerial Lifts	2	15	Diesel
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	Cranes	2	15	Diesel
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	Pumps	2	15	Diesel
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	Rough Terrain Forklifts	2	15	Diesel

Sepulveda Transit Corridor Project - ALTERNATIVE 5

Off-Road Equipment Fleet

Phase Name (if applicable)	Equipment Type (Cranes, Bulldozer, etc.)	Quantity	Daily Usage (hours)	Fuel Type
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	Aerial Lifts	4	15	Diesel
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	Cranes	4	15	Diesel
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	Rough Terrain Forklifts	2	15	Diesel
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	Aerial Lifts	2	15	Diesel
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	Cranes	4	15	Diesel
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	Excavators	2	15	Diesel
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	Other Construction Equipment	2	15	Diesel
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	Aerial Lifts	4	15	Diesel
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	Cranes	4	15	Diesel
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	Rough Terrain Forklifts	2	15	Diesel
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	Aerial Lifts	2	15	Diesel
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	Air Compressors	2	15	Diesel
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	Generator Sets	2	15	Diesel
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	Skid Steer Loaders	2	15	Diesel
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	Welders	3	15	Diesel
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	Air Compressors	2	15	Diesel
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	Generator Sets	2	15	Diesel
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	Cranes	2	15	Diesel
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	Welders	2	15	Diesel
Segment 6-Reach 3 Portal to MSF-Paving	Pavers	1	15	Diesel
Segment 6-Reach 3 Portal to MSF-Paving	Paving Equipment	1	15	Diesel
Segment 6-Reach 3 Portal to MSF-Paving	Rollers	1	15	Diesel
TBM Access Shaft/Staging Site-Demolition/Site Preparation	Air Compressors	1	7.5	Diesel
TBM Access Shaft/Staging Site-Demolition/Site Preparation	Concrete/Industrial Saws	2	7.5	Diesel
TBM Access Shaft/Staging Site-Demolition/Site Preparation	Rough Terrain Forklifts	1	7.5	Diesel
TBM Access Shaft/Staging Site-Demolition/Site Preparation	Skid Steer Loaders	2	7.5	Diesel
TBM Access Shaft/Staging Site-Demolition/Site Preparation	Tractors/Loaders/Backhoes	2	7.5	Diesel
TBM Access Shaft/Staging Site-Shaft SOE	Bore/Drill Rigs	2	7.5	Diesel
TBM Access Shaft/Staging Site-Shaft SOE	Cranes	2	7.5	Diesel
TBM Access Shaft/Staging Site-Shaft SOE	Pumps	2	7.5	Diesel
TBM Access Shaft/Staging Site-Shaft SOE	Rough Terrain Forklifts	2	7.5	Diesel
TBM Access Shaft/Staging Site-Shaft SOE	Tractors/Loaders/Backhoes	2	7.5	Diesel
TBM Access Shaft/Staging Site-Shaft Excavation	Cranes	2	7.5	Diesel
TBM Access Shaft/Staging Site-Shaft Excavation	Excavators	2	7.5	Diesel
TBM Access Shaft/Staging Site-Shaft Excavation	Rough Terrain Forklifts	2	7.5	Diesel
TBM Access Shaft/Staging Site-Shaft Excavation	Tractors/Loaders/Backhoes	2	7.5	Diesel
TBM Access Shaft/Staging Site-Shaft Concrete Work	Cranes	2	7.5	Diesel
TBM Access Shaft/Staging Site-Shaft Concrete Work	Generator Sets	2	7.5	Diesel
TBM Access Shaft/Staging Site-Shaft Concrete Work	Pumps	2	7.5	Diesel
TBM Access Shaft/Staging Site-Shaft Concrete Work	Rough Terrain Forklifts	2	7.5	Diesel
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	Aerial Lifts	2	15	Diesel
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	Cranes	2	15	Diesel
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	Rough Terrain Forklifts	1	15	Diesel
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	Sweepers/Scrubbers	1	15	Diesel
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	Tractors/Loaders/Backhoes	2	15	Diesel
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	Air Compressors	1	15	Diesel
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	Concrete/Industrial Saws	2	15	Diesel
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	Rough Terrain Forklifts	1	15	Diesel
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	Skid Steer Loaders	2	15	Diesel
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	Tractors/Loaders/Backhoes	2	15	Diesel
Metro E Line Stn_U-Alt5-Support of Excavation	Bore/Drill Rigs	2	15	Diesel
Metro E Line Stn_U-Alt5-Support of Excavation	Cranes	2	15	Diesel
Metro E Line Stn_U-Alt5-Support of Excavation	Pumps	2	15	Diesel
Metro E Line Stn_U-Alt5-Support of Excavation	Rough Terrain Forklifts	2	15	Diesel
Metro E Line Stn_U-Alt5-Support of Excavation	Tractors/Loaders/Backhoes	2	15	Diesel
Metro E Line Stn_U-Alt5-Box Excavation	Aerial Lifts	2	15	Diesel
Metro E Line Stn_U-Alt5-Box Excavation	Cranes	2	15	Diesel
Metro E Line Stn_U-Alt5-Box Excavation	Excavators	2	15	Diesel
Metro E Line Stn_U-Alt5-Box Excavation	Tractors/Loaders/Backhoes	2	15	Diesel
Metro E Line Stn_U-Alt5-TBM Pass Through-Maintenance	Cranes	1	15	Diesel
Metro E Line Stn_U-Alt5-TBM Pass Through-Maintenance	Generator Sets	1	15	Diesel
Metro E Line Stn_U-Alt5-Station Structural Concrete	Aerial Lifts	2	15	Diesel
Metro E Line Stn_U-Alt5-Station Structural Concrete	Cranes	2	15	Diesel
Metro E Line Stn_U-Alt5-Station Structural Concrete	Excavators	2	15	Diesel
Metro E Line Stn_U-Alt5-Station Structural Concrete	Pumps	2	15	Diesel
Metro E Line Stn_U-Alt5-Station Structural Concrete	Skid Steer Loaders	2	15	Diesel
Metro E Line Stn_U-Alt5-Station Structural Concrete	Tractors/Loaders/Backhoes	2	15	Diesel
Metro E Line Stn_U-Alt5-Fit Out and Completion	Aerial Lifts	2	15	Diesel
Metro E Line Stn_U-Alt5-Fit Out and Completion	Cement and Mortar Mixers	1	15	Diesel
Metro E Line Stn_U-Alt5-Fit Out and Completion	Generator Sets	2	15	Diesel
Metro E Line Stn_U-Alt5-Fit Out and Completion	Pumps	1	15	Diesel
Metro E Line Stn_U-Alt5-Fit Out and Completion	Welders	2	15	Diesel

Sepulveda Transit Corridor Project - ALTERNATIVE 5

Off-Road Equipment Fleet

Phase Name (if applicable)	Equipment Type (Cranes, Bulldozer, etc.)	Quantity	Daily Usage (hours)	Fuel Type
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	Aerial Lifts	1	15	Diesel
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	Air Compressors	1	15	Diesel
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	Pavers	1	15	Diesel
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	Paving Equipment	1	15	Diesel
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	Rollers	1	15	Diesel
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	Air Compressors	1	15	Diesel
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	Concrete/Industrial Saws	2	15	Diesel
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	Rough Terrain Forklifts	1	15	Diesel
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	Skid Steer Loaders	2	15	Diesel
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	Tractors/Loaders/Backhoes	2	15	Diesel
Santa Monica Stn_U-Alt5-Support of Excavation	Bore/Drill Rigs	2	15	Diesel
Santa Monica Stn_U-Alt5-Support of Excavation	Cranes	2	15	Diesel
Santa Monica Stn_U-Alt5-Support of Excavation	Pumps	2	15	Diesel
Santa Monica Stn_U-Alt5-Support of Excavation	Rough Terrain Forklifts	2	15	Diesel
Santa Monica Stn_U-Alt5-Support of Excavation	Tractors/Loaders/Backhoes	2	15	Diesel
Santa Monica Stn_U-Alt5-Box Excavation	Aerial Lifts	2	15	Diesel
Santa Monica Stn_U-Alt5-Box Excavation	Cranes	2	15	Diesel
Santa Monica Stn_U-Alt5-Box Excavation	Excavators	2	15	Diesel
Santa Monica Stn_U-Alt5-Box Excavation	Tractors/Loaders/Backhoes	2	15	Diesel
Santa Monica Stn_U-Alt5-TBM Pass Through-Maintenance	Cranes	1	15	Diesel
Santa Monica Stn_U-Alt5-TBM Pass Through-Maintenance	Generator Sets	1	15	Diesel
Santa Monica Stn_U-Alt5-Station Structural Concrete	Aerial Lifts	2	15	Diesel
Santa Monica Stn_U-Alt5-Station Structural Concrete	Cranes	2	15	Diesel
Santa Monica Stn_U-Alt5-Station Structural Concrete	Excavators	2	15	Diesel
Santa Monica Stn_U-Alt5-Station Structural Concrete	Pumps	2	15	Diesel
Santa Monica Stn_U-Alt5-Station Structural Concrete	Skid Steer Loaders	2	15	Diesel
Santa Monica Stn_U-Alt5-Station Structural Concrete	Tractors/Loaders/Backhoes	2	15	Diesel
Santa Monica Stn_U-Alt5-Fit Out and Completion	Aerial Lifts	2	15	Diesel
Santa Monica Stn_U-Alt5-Fit Out and Completion	Cement and Mortar Mixers	1	15	Diesel
Santa Monica Stn_U-Alt5-Fit Out and Completion	Generator Sets	2	15	Diesel
Santa Monica Stn_U-Alt5-Fit Out and Completion	Pumps	1	15	Diesel
Santa Monica Stn_U-Alt5-Fit Out and Completion	Welders	2	15	Diesel
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	Air Compressors	1	15	Diesel
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	Concrete/Industrial Saws	2	15	Diesel
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	Rough Terrain Forklifts	1	15	Diesel
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	Skid Steer Loaders	2	15	Diesel
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	Tractors/Loaders/Backhoes	2	15	Diesel
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	Bore/Drill Rigs	2	15	Diesel
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	Cranes	2	15	Diesel
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	Pumps	2	15	Diesel
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	Rough Terrain Forklifts	2	15	Diesel
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	Tractors/Loaders/Backhoes	2	15	Diesel
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	Aerial Lifts	2	15	Diesel
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	Cranes	2	15	Diesel
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	Excavators	2	15	Diesel
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	Tractors/Loaders/Backhoes	2	15	Diesel
D Line Wilshire-Westwood Stn_U-Alt5-TBM Pass Through-Maintenance	Cranes	1	15	Diesel
D Line Wilshire-Westwood Stn_U-Alt5-TBM Pass Through-Maintenance	Generator Sets	1	15	Diesel
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	Aerial Lifts	2	15	Diesel
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	Cranes	2	15	Diesel
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	Excavators	2	15	Diesel
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	Pumps	2	15	Diesel
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	Skid Steer Loaders	2	15	Diesel
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	Tractors/Loaders/Backhoes	2	15	Diesel
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	Aerial Lifts	2	15	Diesel
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	Cement and Mortar Mixers	1	15	Diesel
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	Generator Sets	2	15	Diesel
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	Pumps	1	15	Diesel
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	Welders	2	15	Diesel
UCLA Stn_U-Alt5-Demolition/Site Preparation	Air Compressors	1	15	Diesel
UCLA Stn_U-Alt5-Demolition/Site Preparation	Concrete/Industrial Saws	2	15	Diesel
UCLA Stn_U-Alt5-Demolition/Site Preparation	Rough Terrain Forklifts	1	15	Diesel
UCLA Stn_U-Alt5-Demolition/Site Preparation	Skid Steer Loaders	2	15	Diesel
UCLA Stn_U-Alt5-Demolition/Site Preparation	Tractors/Loaders/Backhoes	2	15	Diesel
UCLA Stn_U-Alt5-Support of Excavation	Bore/Drill Rigs	2	15	Diesel
UCLA Stn_U-Alt5-Support of Excavation	Cranes	2	15	Diesel
UCLA Stn_U-Alt5-Support of Excavation	Pumps	2	15	Diesel
UCLA Stn_U-Alt5-Support of Excavation	Rough Terrain Forklifts	2	15	Diesel
UCLA Stn_U-Alt5-Support of Excavation	Tractors/Loaders/Backhoes	2	15	Diesel
UCLA Stn_U-Alt5-Box Excavation	Aerial Lifts	2	15	Diesel
UCLA Stn_U-Alt5-Box Excavation	Cranes	2	15	Diesel
UCLA Stn_U-Alt5-Box Excavation	Excavators	2	15	Diesel
UCLA Stn_U-Alt5-Box Excavation	Tractors/Loaders/Backhoes	2	15	Diesel

Sepulveda Transit Corridor Project - ALTERNATIVE 5

Off-Road Equipment Fleet

Phase Name (if applicable)	Equipment Type (Cranes, Bulldozer, etc.)	Quantity	Daily Usage (hours)	Fuel Type
UCLA Stn_U-Alt5-Structural Concrete Part 1	Aerial Lifts	2	15	Diesel
UCLA Stn_U-Alt5-Structural Concrete Part 1	Cranes	2	15	Diesel
UCLA Stn_U-Alt5-Structural Concrete Part 1	Excavators	2	15	Diesel
UCLA Stn_U-Alt5-Structural Concrete Part 1	Pumps	2	15	Diesel
UCLA Stn_U-Alt5-Structural Concrete Part 1	Skid Steer Loaders	2	15	Diesel
UCLA Stn_U-Alt5-Structural Concrete Part 1	Tractors/Loaders/Backhoes	2	15	Diesel
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	Aerial Lifts	2	15	Diesel
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	Cranes	2	15	Diesel
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	Excavators	2	15	Diesel
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	Pumps	2	15	Diesel
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	Skid Steer Loaders	2	15	Diesel
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	Tractors/Loaders/Backhoes	2	15	Diesel
UCLA Stn_U-Alt5-Fit Out and Completion	Aerial Lifts	2	15	Diesel
UCLA Stn_U-Alt5-Fit Out and Completion	Cement and Mortar Mixers	1	15	Diesel
UCLA Stn_U-Alt5-Fit Out and Completion	Generator Sets	2	15	Diesel
UCLA Stn_U-Alt5-Fit Out and Completion	Pumps	1	15	Diesel
UCLA Stn_U-Alt5-Fit Out and Completion	Welders	2	15	Diesel
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	Air Compressors	1	15	Diesel
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	Concrete/Industrial Saws	2	15	Diesel
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	Rough Terrain Forklifts	1	15	Diesel
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	Skid Steer Loaders	2	15	Diesel
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	Tractors/Loaders/Backhoes	2	15	Diesel
Ventura Blvd Stn_U-Alt5-Support of Excavation	Bore/Drill Rigs	2	15	Diesel
Ventura Blvd Stn_U-Alt5-Support of Excavation	Cranes	2	15	Diesel
Ventura Blvd Stn_U-Alt5-Support of Excavation	Pumps	2	15	Diesel
Ventura Blvd Stn_U-Alt5-Support of Excavation	Rough Terrain Forklifts	2	15	Diesel
Ventura Blvd Stn_U-Alt5-Support of Excavation	Tractors/Loaders/Backhoes	2	15	Diesel
Ventura Blvd Stn_U-Alt5-Box Excavation	Aerial Lifts	2	15	Diesel
Ventura Blvd Stn_U-Alt5-Box Excavation	Cranes	2	15	Diesel
Ventura Blvd Stn_U-Alt5-Box Excavation	Excavators	2	15	Diesel
Ventura Blvd Stn_U-Alt5-Box Excavation	Tractors/Loaders/Backhoes	2	15	Diesel
Ventura Blvd Stn_U-Alt5-Box Concrete Work	Aerial Lifts	2	15	Diesel
Ventura Blvd Stn_U-Alt5-Box Concrete Work	Cranes	2	15	Diesel
Ventura Blvd Stn_U-Alt5-Box Concrete Work	Excavators	2	15	Diesel
Ventura Blvd Stn_U-Alt5-Box Concrete Work	Pumps	2	15	Diesel
Ventura Blvd Stn_U-Alt5-Box Concrete Work	Skid Steer Loaders	2	15	Diesel
Ventura Blvd Stn_U-Alt5-Box Concrete Work	Tractors/Loaders/Backhoes	2	15	Diesel
Ventura Blvd Stn_U-Alt5-Mobilize/Launch Reach 2 TBM	Cranes	0	15	Diesel
Ventura Blvd Stn_U-Alt5-Retrieve/Demob Reach 3 TBM	Cranes	0	15	Diesel
Ventura Blvd Stn_U-Alt5-Structural Concrete	Aerial Lifts	2	15	Diesel
Ventura Blvd Stn_U-Alt5-Structural Concrete	Cranes	2	15	Diesel
Ventura Blvd Stn_U-Alt5-Structural Concrete	Excavators	2	15	Diesel
Ventura Blvd Stn_U-Alt5-Structural Concrete	Pumps	2	15	Diesel
Ventura Blvd Stn_U-Alt5-Structural Concrete	Skid Steer Loaders	2	15	Diesel
Ventura Blvd Stn_U-Alt5-Structural Concrete	Tractors/Loaders/Backhoes	2	15	Diesel
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	Aerial Lifts	2	15	Diesel
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	Cement and Mortar Mixers	1	15	Diesel
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	Generator Sets	2	15	Diesel
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	Pumps	1	15	Diesel
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	Welders	2	15	Diesel
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	Aerial Lifts	1	15	Diesel
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	Air Compressors	1	15	Diesel
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	Pavers	1	15	Diesel
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	Paving Equipment	1	15	Diesel
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	Rollers	1	15	Diesel
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	Air Compressors	1	15	Diesel
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	Concrete/Industrial Saws	2	15	Diesel
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	Rough Terrain Forklifts	1	15	Diesel
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	Skid Steer Loaders	2	15	Diesel
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	Tractors/Loaders/Backhoes	2	15	Diesel
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	Bore/Drill Rigs	2	15	Diesel
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	Cranes	2	15	Diesel
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	Pumps	2	15	Diesel
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	Rough Terrain Forklifts	2	15	Diesel
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	Tractors/Loaders/Backhoes	2	15	Diesel
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	Aerial Lifts	2	15	Diesel
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	Cranes	2	15	Diesel
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	Excavators	2	15	Diesel
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	Tractors/Loaders/Backhoes	2	15	Diesel
Sepulveda-Metro G Line Stn_U-Alt5-TBM Pass Through-Maintenance	Cranes	1	15	Diesel
Sepulveda-Metro G Line Stn_U-Alt5-TBM Pass Through-Maintenance	Generator Sets	1	15	Diesel

Sepulveda Transit Corridor Project - ALTERNATIVE 5

Off-Road Equipment Fleet

Phase Name (if applicable)	Equipment Type (Cranes, Bulldozer, etc.)	Quantity	Daily Usage (hours)	Fuel Type
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	Aerial Lifts	2	15	Diesel
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	Cranes	2	15	Diesel
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	Excavators	2	15	Diesel
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	Pumps	2	15	Diesel
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	Skid Steer Loaders	2	15	Diesel
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	Tractors/Loaders/Backhoes	2	15	Diesel
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	Aerial Lifts	2	15	Diesel
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	Cement and Mortar Mixers	1	15	Diesel
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	Generator Sets	2	15	Diesel
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	Pumps	1	15	Diesel
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	Welders	2	15	Diesel
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	Air Compressors	1	15	Diesel
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	Concrete/Industrial Saws	2	15	Diesel
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	Rough Terrain Forklifts	1	15	Diesel
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	Skid Steer Loaders	2	15	Diesel
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	Tractors/Loaders/Backhoes	2	15	Diesel
Sherman Way Stn_U-Alt5-Support of Excavation	Bore/Drill Rigs	2	15	Diesel
Sherman Way Stn_U-Alt5-Support of Excavation	Cranes	2	15	Diesel
Sherman Way Stn_U-Alt5-Support of Excavation	Pumps	2	15	Diesel
Sherman Way Stn_U-Alt5-Support of Excavation	Rough Terrain Forklifts	2	15	Diesel
Sherman Way Stn_U-Alt5-Support of Excavation	Tractors/Loaders/Backhoes	2	15	Diesel
Sherman Way Stn_U-Alt5-Box Excavation	Aerial Lifts	2	15	Diesel
Sherman Way Stn_U-Alt5-Box Excavation	Cranes	2	15	Diesel
Sherman Way Stn_U-Alt5-Box Excavation	Excavators	2	15	Diesel
Sherman Way Stn_U-Alt5-Box Excavation	Tractors/Loaders/Backhoes	2	15	Diesel
Sherman Way Stn_U-Alt5-TBM Pass Through-Maintenance	Cranes	1	7.5	Diesel
Sherman Way Stn_U-Alt5-TBM Pass Through-Maintenance	Generator Sets	1	7.5	Diesel
Sherman Way Stn_U-Alt5-Station Structural Concrete	Aerial Lifts	2	15	Diesel
Sherman Way Stn_U-Alt5-Station Structural Concrete	Cranes	2	15	Diesel
Sherman Way Stn_U-Alt5-Station Structural Concrete	Excavators	2	15	Diesel
Sherman Way Stn_U-Alt5-Station Structural Concrete	Pumps	2	15	Diesel
Sherman Way Stn_U-Alt5-Station Structural Concrete	Skid Steer Loaders	2	15	Diesel
Sherman Way Stn_U-Alt5-Station Structural Concrete	Tractors/Loaders/Backhoes	2	15	Diesel
Sherman Way Stn_U-Alt5-Fit Out and Completion	Aerial Lifts	2	15	Diesel
Sherman Way Stn_U-Alt5-Fit Out and Completion	Cement and Mortar Mixers	1	15	Diesel
Sherman Way Stn_U-Alt5-Fit Out and Completion	Generator Sets	2	15	Diesel
Sherman Way Stn_U-Alt5-Fit Out and Completion	Pumps	1	15	Diesel
Sherman Way Stn_U-Alt5-Fit Out and Completion	Welders	2	15	Diesel
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	Aerial Lifts	1	7.5	Diesel
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	Air Compressors	1	7.5	Diesel
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	Pavers	1	7.5	Diesel
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	Paving Equipment	1	7.5	Diesel
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	Rollers	1	7.5	Diesel
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	Air Compressors	1	15	Diesel
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	Concrete/Industrial Saws	2	15	Diesel
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	Rough Terrain Forklifts	1	15	Diesel
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	Skid Steer Loaders	2	15	Diesel
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	Tractors/Loaders/Backhoes	2	15	Diesel
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	Bore/Drill Rigs	2	15	Diesel
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	Cranes	3	15	Diesel
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	Pumps	3	15	Diesel
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	Rough Terrain Forklifts	2	15	Diesel
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	Tractors/Loaders/Backhoes	2	15	Diesel
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	Aerial Lifts	4	15	Diesel
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	Cranes	4	15	Diesel
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	Other Construction Equipment	2	15	Diesel
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	Rough Terrain Forklifts	2	15	Diesel
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	Welders	2	15	Diesel
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	Aerial Lifts	4	15	Diesel
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	Air Compressors	4	15	Diesel
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	Cranes	4	15	Diesel
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	Other Construction Equipment	2	15	Diesel
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	Rough Terrain Forklifts	2	15	Diesel
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	Welders	2	15	Diesel
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	Aerial Lifts	1	15	Diesel
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	Air Compressors	1	15	Diesel
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	Pavers	1	15	Diesel
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	Paving Equipment	1	15	Diesel
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	Rollers	1	15	Diesel
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	Trenchers	1	7.5	Diesel
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	Skid Steer Loaders	1	7.5	Diesel
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	Tractors/Loaders/Backhoes	1	7.5	Diesel

Sepulveda Transit Corridor Project - ALTERNATIVE 5

Off-Road Equipment Fleet

Phase Name (if applicable)	Equipment Type (Cranes, Bulldozer, etc.)	Quantity	Daily Usage (hours)	Fuel Type
TPSS 11-Sta 1260-Grounding-Foundations	Cranes	1	7.5	Diesel
TPSS 11-Sta 1260-Grounding-Foundations	Pumps	1	7.5	Diesel
TPSS 11-Sta 1260-Grounding-Foundations	Tractors/Loaders/Backhoes	1	7.5	Diesel
TPSS 11-Sta 1260-TPSS Installation	Aerial Lifts	1	7.5	Diesel
TPSS 11-Sta 1260-TPSS Installation	Cranes	1	7.5	Diesel
TPSS 11-Sta 1260-TPSS Installation	Rough Terrain Forklifts	1	7.5	Diesel
TPSS 11-Sta 1260-TPSS Installation	Welders	1	7.5	Diesel
TPSS 11-Sta 1260-Site Restoration	Air Compressors	1	7.5	Diesel
TPSS 11-Sta 1260-Site Restoration	Generator Sets	1	7.5	Diesel
TPSS 11-Sta 1260-Site Restoration	Skid Steer Loaders	1	7.5	Diesel
MSF-Demolition	Concrete/Industrial Saws	1	7.5	Diesel
MSF-Demolition	Excavators	3	7.5	Diesel
MSF-Demolition	Rubber Tired Dozers	2	7.5	Diesel
MSF-Site Preparation	Rubber Tired Dozers	3	7.5	Diesel
MSF-Site Preparation	Tractors/Loaders/Backhoes	4	7.5	Diesel
MSF-Grading	Excavators	2	7.5	Diesel
MSF-Grading	Graders	1	7.5	Diesel
MSF-Grading	Rubber Tired Dozers	1	7.5	Diesel
MSF-Grading	Scrapers	2	7.5	Diesel
MSF-Grading	Tractors/Loaders/Backhoes	2	7.5	Diesel
MSF-Building Construction	Cranes	1	7.5	Diesel
MSF-Building Construction	Forklifts	3	7.5	Diesel
MSF-Building Construction	Generator Sets	1	7.5	Diesel
MSF-Building Construction	Tractors/Loaders/Backhoes	3	7.5	Diesel
MSF-Building Construction	Welders	1	7.5	Diesel
MSF-Paving	Pavers	2	7.5	Diesel
MSF-Paving	Paving Equipment	2	7.5	Diesel
MSF-Paving	Rollers	2	7.5	Diesel
MSF-Archictectural Coating	Air Compressors	1	7.5	Diesel
MSF-Test Track	Aerial Lifts	2	7.5	Diesel
MSF-Test Track	Rough Terrain Forklifts	2	7.5	Diesel
MSF-Test Track	Welders	2	7.5	Diesel
Precast Yard-Alt 5 Concrete Activity	Cranes	2	15	Diesel
Precast Yard-Alt 5 Concrete Activity	Cement and Mortar Mixers	2	15	Diesel
Precast Yard-Alt 5 Concrete Activity	Generator Sets	2	15	Diesel
Precast Yard-Alt 5 Concrete Activity	Other General Industrial Equipment	1	15	Diesel
Precast Yard-Alt 5 Concrete Activity	Pumps	2	15	Diesel
Precast Yard-Alt 5 Concrete Activity	Rough Terrain Forklifts	2	15	Diesel
Precast Yard-Alt 5 Concrete Activity	Tractors/Loaders/Backhoes	2	15	Diesel
Precast Yard-Alt 5 Concrete Activity	Welders	2	15	Diesel
NCZ Staging Area-Staging Activity	Cranes	1	15	Diesel
NCZ Staging Area-Staging Activity	Rough Terrain Forklifts	2	15	Diesel
NCZ Staging Area-Staging Activity	Skid Steer Loaders	2	15	Diesel
NCZ Staging Area-Staging Activity	Tractors/Loaders/Backhoes	2	15	Diesel
NCZ Staging Area-Staging Activity	Welders	2	15	Diesel
SCZ Staging Area-Staging Activity	Cranes	1	15	Diesel
SCZ Staging Area-Staging Activity	Rough Terrain Forklifts	2	15	Diesel
SCZ Staging Area-Staging Activity	Skid Steer Loaders	2	15	Diesel
SCZ Staging Area-Staging Activity	Tractors/Loaders/Backhoes	2	15	Diesel
SCZ Staging Area-Staging Activity	Welders	2	15	Diesel

Sepulveda Transit Corridor Project - ALTERNATIVE 5

DUST CONTROL MEASURES/ASSUMPTIONS

General Construction Assumptions	Value
Onsite Vehicle Speed (mph):	15
Onsite Trip Length (miles):	0.10
Number of Watering Events per Day:	3
General Worksite Dust Reduction (%)	74%

Dust Control Measures[1]

Activity Area	Control Measure	Control Efficiency (%)	Additional Notes
General Worksite	Apply water at various intervals to disturbed areas within construction site (**3.2-hour watering interval)**	61%	If using this reduction, account for 2 water trucks trips per day (4 one-way trips/2 onsite trips)
General Worksite	Apply water at various intervals to disturbed areas within construction site (**2.1-hour watering interval)**	74%	If using this reduction, account for 3 water trucks trips per day (6 one-way trips/3 onsite trips)
Unpaved Roads	Implement watering twice a day for industrial unpaved road.	55%	The analysis assumes water trucks used for general worksite would also water unpaved roads and provide water during demolition activities. The AQ analysis assumes 3 water trucks per day,
Demolition Activities	Apply water every 4 hours to the area within 100 feet of a structure being demolished, to reduce vehicle trackout.	36%	

Notes:

1. Western Regional Air Partnership (WRAP) Fugitive Dust Handbook. September 7, 2006. Prepared by Countess Environmental

Sepulveda Transit Corridor Project - ALTERNATIVE 5

OFFROAD EQUIPMENT (ONSITE)[1]

															Emission Factor (g/bhp-hr)[3]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	2028	Air Compressors	Air Compressors	1	7.5	37	0.48	Diesel	Fleet Avg	0.46	3.44	4.76	0.01	-	0.07	0.07	-	0.06	0.06	568.34	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	2028	Concrete/Industrial Saws	Concrete/Industrial Saws	2	7.5	33	0.73	Diesel	Fleet Avg	0.37	3.34	4.27	0.01	-	0.06	0.06	-	0.05	0.05	574.38	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	2028	Rough Terrain Forklifts	Rough Terrain Forklifts	1	7.5	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.60	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	2028	Skid Steer Loaders	Skid Steer Loaders	2	7.5	71	0.37	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.61	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	7.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.57	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	2029	Bore/Drill Rigs	Bore/Drill Rigs	2	7.5	83	0.50	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.33	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	2029	Cranes	Cranes	2	7.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	2029	Pumps	Pumps	2	7.5	11	0.74	Diesel	Fleet Avg	0.56	4.26	2.98	0.01	-	0.17	0.17	-	0.15	0.15	568.32	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	7.5	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	7.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	2029	Cranes	Cranes	2	7.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	2029	Excavators	Excavators	2	7.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	7.5	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	7.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	2029	Cranes	Cranes	2	7.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	2029	Generator Sets	Generator Sets	2	7.5	14	0.74	Diesel	Fleet Avg	0.53	4.28	2.84	0.01	-	0.17	0.17	-	0.15	0.15	568.32	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	2029	Pumps	Pumps	2	7.5	11	0.74	Diesel	Fleet Avg	0.56	4.26	2.98	0.01	-	0.17	0.17	-	0.15	0.15	568.32	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	7.5	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	2029	Cranes	Cranes	4	15.0	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	2029	Generator Sets	Generator Sets	2	15.0	14	0.74	Diesel	Fleet Avg	0.53	4.28	2.84	0.01	-	0.17	0.17	-	0.15	0.15	568.32	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	2029	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.56	4.26	2.98	0.01	-	0.17	0.17	-	0.15	0.15	568.32	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	2029	Welders	Welders	2	15.0	46	0.45	Diesel	Fleet Avg	0.39	3.31	4.41	0.01	-	0.05	0.05	-	0.05	0.05	568.30	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	2030	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.15	2.86	3.07	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	2030	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	2030	Tunnel Boring Machine (TBM)	Tunnel Boring Machine (TBM	1	15.0	-	-	Electric	--	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	2032	Cranes	Cranes	4	15.0	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	2032	Generator Sets	Generator Sets	2	15.0	14	0.74	Diesel	Fleet Avg	0.53	4.26	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	2032	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.33	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	2032	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	2032	Welders	Welders	2	15.0	46	0.45	Diesel	Fleet Avg	0.35	3.21	4.36	0.01	-	0.03	0.03	-	0.03	0.03	568.31	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	4/15/2030	6/11/2032	7	789	20	2030	Aerial Lifts	Aerial Lifts	1	15.0	46	0.31	Diesel	Fleet Avg	0.15	2.86	3.07	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	4/15/2030	6/11/2032	7	789	20	2030	Air Compressors	Air Compressors	1	15.0	37	0.48	Diesel	Fleet Avg	0.42	3.34	4.71	0.01	-	0.05	0.05	-	0.04	0.04	568.32	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	4/15/2030	6/11/2032	7	789	20	2030	Rollers	Rollers	1	15.0	36	0.38	Diesel	Fleet Avg	0.47	3.46	4.06	0.01	-	0.12	0.12	-	0.11	0.11	587.11	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenur	6/12/2032	11/28/2033	7	535	20	2032	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.15	2.85	3.06	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenur	6/12/2032	11/28/2033	7	535	20	2032	Cement and Mortar Mixers	Cement and Mortar Mixers	2	15.0	10	0.56	Diesel	Fleet Avg	0.55	4.19	3.25	0.01	-	0.16	0.16	-	0.15	0.15	570.11	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installatio	12/1/2033	7/13/2034	7	225	20	2033	Aerial Lifts	Aerial Lifts	1	15.0	46	0.31	Diesel	Fleet Avg	0.14	2.85	3.06	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installatio	12/1/2033	7/13/2034	7	225	20	2033	Air Compressors	Air Compressors	2	15.0	37	0.48	Diesel	Fleet Avg	0.39	3.25	4.68	0.01	-	0.03	0.03	-	0.03	0.03	568.34	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installatio	12/1/2033	7/13/2034	7	225	20	2033	Generator Sets	Generator Sets	2	15.0	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.31	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installatio	12/1/2033	7/13/2034	7	225	20	2033	Welders	Welders	3	15.0	46	0.45	Diesel	Fleet Avg	0.34	3.19	4.35	0.01	-	0.03	0.03	-	0.03	0.03	568.31	0.02	0.00
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Cranes	Cranes	4	15.0	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.75	0.02	0.00
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Generator Sets	Generator Sets	2	15.0	14	0.74	Diesel	Fleet Avg	0.54	4.29	2.85	0.01	-	0.17	0.17	-	0.16	0.16	568.30	0.02	0.00
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.56	4.27	2.98	0.01	-	0.17	0.17	-	0.16	0.16	568.34	0.02	0.00
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.57	0.02	0.00
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Welders	Welders	2	15.0	46	0.45	Diesel	Fleet Avg	0.41	3.37	4.43	0.01	-	0.06	0.06	-	0.06	0.06	568.31	0.02	0.00
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	2029	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.15	2.86	3.07	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	2029	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	2029	Tunnel Boring Machine (TBM)	Tunnel Boring Machine (TBM	1	15.0	-	-	Electric	--	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	2033	Cranes	Cranes	4	15.0	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	2033	Generator Sets	Generator Sets	2	15.0	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.31	0.02	0.00
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	2033	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	2033	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	2033	Welders	Welders	2	15.0	46	0.45	Diesel	Fleet Avg	0.34	3.19	4.35	0.01	-	0.03	0.03	-	0.03	0.03	568.31	0.02	0.00
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	3/1/2029	2/14/2033	7	1447	20	2029	Aerial Lifts	Aerial Lifts	1	15.0	46	0.31	Diesel	Fleet Avg	0.15	2.86	3.07	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	3/1/2029	2/14/2033	7	1447	20	2029	Air Compressors	Air Compressors	1	15.0	37	0.48	Diesel	Fleet Avg	0.44	3.38	4.73	0.01	-	0.05	0.05	-	0.05	0.05	568.31	0.02	0.00
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	3/1/2029	2/14/2033	7	1447	20	2029	Rollers	Rollers	1	15.0	36	0.38	Diesel	Fleet Avg	0.49	3.48	4.09	0.01	-	0.13	0.13	-	0.12	0.12	587.11	0.02	0.00
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Slabs, Walkways, Plenum	8/23/2032	12/14/2034	7	844	20	2032	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.15	2.85	3.06	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Slabs, Walkways, Plenum	8/23/2032	12/14/2034	7	844	20	2032	Cement and Mortar Mixers	Cement and Mortar Mixers	2	15.0	10	0.56	Diesel	Fleet Avg	0.55	4.19	3.25	0.01	-	0.16	0.16	-	0.15	0.15	570.11	0.02	0.00
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	2034	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.14	2.85	3.06	0.01	-	0.02	0.02	-	0.01	0.01	586.90	0.02	0.00
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	2034	Air Compressors	Air Compressors	2	15.0	37	0.48	Diesel	Fleet Avg	0.39	3.23	4.68	0.01	-	0.03	0.03	-	0.02	0.02	568.40	0.02	0.00
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	2034	Generator Sets	Generator Sets	2	15.0	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	2034	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	2027	Air Compressors	Air Compressors	1	7.5	37	0.48	Diesel	Fleet Avg	0.48	3.54	4.79	0.01	-	0.08	0.08	-	0.07	0.07	568.32	0.02	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	2027	Concrete/Industrial Saws	Concrete/Industrial Saws	2	7.5	33	0.73	Diesel	Fleet Avg	0.39	3.43	4.29	0.01	-	0.07	0.07	-	0.07	0.07	574.33	0.02	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	2027	Rough Terrain Forklifts	Rough Terrain Forklifts	1	7.5	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.69	0.02	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	2027	Skid Steer Loaders	Skid Steer Loaders	2	7.5	71	0.37	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.66	0.02	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	2027	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	7.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.62	0.02	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	2028	Bore/Drill Rigs	Bore/Drill Rigs	2	7.5	83	0.50	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.64	0.02	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	2028	Cranes	Cranes	2	7.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.75	0.02	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	2028	Pumps	Pumps	2	7.5	11	0.74	Diesel	Fleet Avg	0.56	4.27	2.98	0.01	-	0.17	0.17	-	0.16	0.16	568.34	0.02	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	2028	Rough Terrain Forklifts	Rough Terrain Forklifts	2	7.5	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.60	0.02	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	7.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.57	0.02	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 5

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Daily Emissions (lb/day) ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	2028	Air Compressors	Air Compressors	1	7.5	37	0.48	Diesel	Fleet Avg	0.13	1.01	1.40	0.00	-	0.02	0.02	-	0.02	0.02	166.9	0.01	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	2028	Concrete/Industrial Saws	Concrete/Industrial Saws	2	7.5	33	0.73	Diesel	Fleet Avg	0.30	2.66	3.40	0.01	-	0.05	0.05	-	0.04	0.04	457.6	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	2028	Rough Terrain Forklifts	Rough Terrain Forklifts	1	7.5	96	0.40	Diesel	Tier 4 Final	0.03	0.17	2.35	0.00	-	0.01	0.01	-	0.01	0.01	335.6	0.01	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	2028	Skid Steer Loaders	Skid Steer Loaders	2	7.5	71	0.37	Diesel	Tier 4 Final	0.08	2.38	3.21	0.00	-	0.01	0.01	-	0.01	0.01	459.2	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	7.5	84	0.37	Diesel	Tier 4 Final	0.05	0.27	3.80	0.01	-	0.01	0.01	-	0.01	0.01	544.3	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	2029	Bore/Drill Rigs	Bore/Drill Rigs	2	7.5	83	0.50	Diesel	Tier 4 Final	0.07	0.36	5.08	0.01	-	0.01	0.01	-	0.01	0.01	718.2	0.03	0.01
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	2029	Cranes	Cranes	2	7.5	367	0.29	Diesel	Tier 4 Final	0.18	0.92	9.15	0.02	-	0.04	0.04	-	0.04	0.04	1857.0	0.08	0.02
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	2029	Pumps	Pumps	2	7.5	11	0.74	Diesel	Fleet Avg	0.15	1.15	0.80	0.00	-	0.05	0.05	-	0.04	0.04	153.0	0.01	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	7.5	96	0.40	Diesel	Tier 4 Final	0.06	0.33	4.70	0.01	-	0.01	0.01	-	0.01	0.01	671.4	0.03	0.01
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	7.5	84	0.37	Diesel	Tier 4 Final	0.05	0.27	3.80	0.01	-	0.01	0.01	-	0.01	0.01	544.0	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	2029	Cranes	Cranes	2	7.5	367	0.29	Diesel	Tier 4 Final	0.18	0.92	9.15	0.02	-	0.04	0.04	-	0.04	0.04	1857.0	0.08	0.02
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	2029	Excavators	Excavators	2	7.5	36	0.38	Diesel	Fleet Avg	0.16	1.50	1.91	0.00	-	0.03	0.03	-	0.03	0.03	266.0	0.01	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	7.5	96	0.40	Diesel	Tier 4 Final	0.06	0.33	4.70	0.01	-	0.01	0.01	-	0.01	0.01	671.4	0.03	0.01
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	7.5	84	0.37	Diesel	Tier 4 Final	0.05	0.27	3.80	0.01	-	0.01	0.01	-	0.01	0.01	544.0	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	2029	Cranes	Cranes	2	7.5	367	0.29	Diesel	Tier 4 Final	0.18	0.92	9.15	0.02	-	0.04	0.04	-	0.04	0.04	1857.0	0.08	0.02
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	2029	Generator Sets	Generator Sets	2	7.5	14	0.74	Diesel	Fleet Avg	0.18	1.46	0.97	0.00	-	0.06	0.06	-	0.05	0.05	194.7	0.01	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	2029	Pumps	Pumps	2	7.5	11	0.74	Diesel	Fleet Avg	0.15	1.15	0.80	0.00	-	0.05	0.05	-	0.04	0.04	153.0	0.01	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	7.5	96	0.40	Diesel	Tier 4 Final	0.06	0.33	4.70	0.01	-	0.01	0.01	-	0.01	0.01	671.4	0.03	0.01
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	2029	Cranes	Cranes	4	15.0	367	0.29	Diesel	Tier 4 Final	0.70	3.66	36.60	0.07	-	0.14	0.14	-	0.14	0.14	7427.9	0.30	0.06
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	2029	Generator Sets	Generator Sets	2	15.0	14	0.74	Diesel	Fleet Avg	0.37	2.93	1.95	0.01	-	0.11	0.11	-	0.11	0.11	389.4	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	2029	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.30	2.29	1.60	0.00	-	0.09	0.09	-	0.08	0.08	306.0	0.01	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.0	0.04	0.01
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	2029	Welders	Welders	2	15.0	46	0.45	Diesel	Fleet Avg	0.53	4.54	6.03	0.01	-	0.07	0.07	-	0.07	0.07	778.0	0.03	0.01
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	2030	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.14	2.70	2.89	0.01	-	0.02	0.02	-	0.02	0.02	553.5	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	2030	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.35	1.83	18.30	0.03	-	0.07	0.07	-	0.07	0.07	3713.9	0.15	0.03
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.13	0.66	9.40	0.01	-	0.03	0.03	-	0.03	0.03	1342.8	0.05	0.01
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	2030	Tunnel Boring Machine (TBM)	Tunnel Boring Machine (TBM	1	15.0	-	-	Electric	--	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.0	0.04	0.01
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	2032	Cranes	Cranes	4	15.0	367	0.29	Diesel	Tier 4 Final	0.70	3.66	36.60	0.07	-	0.14	0.14	-	0.14	0.14	7427.9	0.30	0.06
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	2032	Generator Sets	Generator Sets	2	15.0	14	0.74	Diesel	Fleet Avg	0.36	2.92	1.95	0.01	-	0.11	0.11	-	0.10	0.10	389.4	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	2032	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.30	2.28	1.60	0.00	-	0.09	0.09	-	0.08	0.08	306.0	0.01	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	2032	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.0	0.04	0.01
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	2032	Welders	Welders	2	15.0	46	0.45	Diesel	Fleet Avg	0.48	4.40	5.97	0.01	-	0.05	0.05	-	0.04	0.04	778.1	0.03	0.01
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	4/15/2030	6/11/2032	7	789	20	2030	Aerial Lifts	Aerial Lifts	1	15.0	46	0.31	Diesel	Fleet Avg	0.07	1.35	1.45	0.00	-	0.01	0.01	-	0.01	0.01	276.8	0.01	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	4/15/2030	6/11/2032	7	789	20	2030	Air Compressors	Air Compressors	1	15.0	37	0.48	Diesel	Fleet Avg	0.25	1.96	2.77	0.00	-	0.03	0.03	-	0.03	0.03	333.8	0.01	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	4/15/2030	6/11/2032	7	789	20	2030	Rollers	Rollers	1	15.0	36	0.38	Diesel	Fleet Avg	0.21	1.57	1.84	0.00	-	0.05	0.05	-	0.05	0.05	265.6	0.01	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenur	6/12/2032	11/28/2033	7	535	20	2032	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.14	2.69	2.89	0.01	-	0.02	0.02	-	0.02	0.02	553.5	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenur	6/12/2032	11/28/2033	7	535	20	2032	Cement and Mortar Mixers	Cement and Mortar Mixers	2	15.0	10	0.56	Diesel	Fleet Avg	0.20	1.55	1.21	0.00	-	0.06	0.06	-	0.06	0.06	211.2	0.01	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installatio	12/1/2033	7/13/2034	7	225	20	2033	Aerial Lifts	Aerial Lifts	1	15.0	46	0.31	Diesel	Fleet Avg	0.07	1.34	1.44	0.00	-	0.01	0.01	-	0.01	0.01	276.8	0.01	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installatio	12/1/2033	7/13/2034	7	225	20	2033	Air Compressors	Air Compressors	2	15.0	37	0.48	Diesel	Fleet Avg	0.46	3.82	5.50	0.01	-	0.04	0.04	-	0.03	0.03	667.6	0.03	0.01
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installatio	12/1/2033	7/13/2034	7	225	20	2033	Generator Sets	Generator Sets	2	15.0	14	0.74	Diesel	Fleet Avg	0.36	2.91	1.95	0.01	-	0.11	0.11	-	0.10	0.10	389.4	0.02	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installatio	12/1/2033	7/13/2034	7	225	20	2033	Welders	Welders	3	15.0	46	0.45	Diesel	Fleet Avg	0.70	6.54	8.94	0.02	-	0.06	0.06	-	0.05	0.05	1167.1	0.05	0.01
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Cranes	Cranes	4	15.0	367	0.29	Diesel	Tier 4 Final	0.70	3.66	36.60	0.07	-	0.14	0.14	-	0.14	0.14	7429.9	0.30	0.06
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Generator Sets	Generator Sets	2	15.0	14	0.74	Diesel	Fleet Avg	0.37	2.94	1.95	0.01	-	0.12	0.12	-	0.11	0.11	389.4	0.02	0.00
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.30	2.30	1.60	0.00	-	0.09	0.09	-	0.08	0.08	306.0	0.01	0.00
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.6	0.04	0.01
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Welders	Welders	2	15.0	46	0.45	Diesel	Fleet Avg	0.56	4.61	6.07	0.01	-	0.09	0.09	-	0.08	0.08	778.1	0.03	0.01
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	2029	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.14	2.70	2.90	0.01	-	0.02	0.02	-	0.02	0.02	553.5	0.02	0.00
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	2029	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.35	1.83	18.30	0.03	-	0.07	0.07	-	0.07	0.07	3713.9	0.15	0.03
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.13	0.66	9.40	0.01	-	0.03	0.03	-	0.03	0.03	1342.8	0.05	0.01
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	2029	Tunnel Boring Machine (TBM)	Tunnel Boring Machine (TBM	1	15.0	-	-	Electric	--	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.0	0.04	0.01
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	2033	Cranes	Cranes	4	15.0	367	0.29	Diesel	Tier 4 Final	0.70	3.66	36.60	0.07	-	0.14	0.14	-	0.14	0.14	7427.9	0.30	0.06
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	2033	Generator Sets	Generator Sets	2	15.0	14	0.74	Diesel	Fleet Avg	0.36	2.91	1.95	0.01	-	0.11	0.11	-	0.10	0.10	389.4	0.02	0.00
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	2033	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.30	2.28	1.60	0.00	-	0.09	0.09	-	0.08	0.08	306.0	0.01	0.00
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	2033	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.0	0.04	0.01
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	2033	Welders	Welders	2	15.0	46	0.45	Diesel	Fleet Avg	0.47	4.36	5.96	0.01	-	0.04	0.04	-	0.04	0.04	778.1	0.03	0.01
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	3/1/2029	2/14/2033	7	1447	20	2029	Aerial Lifts	Aerial Lifts	1	15.0	46	0.31	Diesel	Fleet Avg	0.07	1.35	1.45	0.00	-	0.01	0.01	-	0.01	0.01	276.8	0.01	0.00
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	3/1/2029	2/14/2033	7	1447	20	2029	Air Compressors	Air Compressors	1	15.0	37	0.48	Diesel	Fleet Avg	0.26	1.99	2.78	0.00	-	0.03	0.03	-	0.03	0.03	333.8	0.01	0.00
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	3/1/2029	2/14/2033	7	1447	20	2029	Rollers	Rollers	1	15.0	36	0.38	Diesel	Fleet Avg	0.22	1.57	1.85	0.00	-	0.06	0.06	-	0.05	0.05	265.6	0.01	0.00
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Slabs, Walkways, Plenum	8/23/2032	12/14/2034	7	844	20	2032	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.14	2.69	2.89	0.01	-	0.02	0.02	-	0.02	0.02	553.5	0.02	0.00
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Slabs, Walkways, Plenum	8/23/2032	12/14/2034	7	844	20	2032	Cement and Mortar Mixers	Cement and Mortar Mixers	2	15.0	10	0.56	Diesel	Fleet Avg	0.20	1.55	1.21	0.00	-	0.06	0.06	-	0.06	0.06	211.2	0.01	0.00
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	2034	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.13	2.68	2.88	0.01	-	0.01	0.01	-	0.01	0.01	553.5	0.02	0.00
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	2034	Air Compressors	Air Compressors	2	15.0	37	0.48	Diesel	Fleet Avg	0.45	3.80	5.50	0.01	-	0.03	0.03	-	0.03	0.03	667.7	0.03	0.01
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	2034	Generator Sets	Generator Sets	2	15.0	14	0.74	Diesel	Fleet Avg	0.36	2.91	1.95	0.01	-	0.11	0.11	-	0.10	0.10	389.4	0.02	0.00
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	2034	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.13	0.66	9.40	0.01	-	0.03	0.03	-	0.03	0.03	1342.8	0.05	0.01
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	2027	Air Compressors	Air Compressors	1	7.5	37	0.48	Diesel	Fleet Avg	0.14	1.04	1.41	0.00	-	0.02	0.02	-	0.02	0.02	166.9	0.01	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	2027	Concrete/Industrial Saws	Concrete/Industrial Saws	2	7.5	33	0.73	Diesel	Fleet Avg	0.31	2.73	3.42	0.01	-	0.06	0.06	-	0.05	0.05	457.5	0.02	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	2027	Rough Terrain Forklifts	Rough Terrain Forklifts	1	7.5	96	0.40	Diesel	Tier 4 Final	0.03	0.17	2.35	0.00	-	0.01	0.01	-	0.01	0.01	335.7	0.01	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	2027	Skid Steer Loaders	Skid Steer Loaders	2	7.5	71	0.37	Diesel	Tier 4 Final	0.08	2.38	3.21	0.00	-	0.01	0.01	-	0.01	0.01	459.3	0.02	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	2027	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	7.5	84	0.37	Diesel	Tier 4 Final	0.05	0.27	3.80	0.01	-	0.01	0.01	-	0.01	0.01	544.3	0.02	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	2028	Bore/Drill Rigs	Bore/Drill Rigs	2	7.5	83	0.50	Diesel	Tier 4 Final	0.07	0.36	5.08	0.01	-	0.01	0.01	-	0.01	0.01	718.6	0.03	0.01
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	2028	Cranes	Cranes	2	7.5	367	0.29	Diesel	Tier 4 Final	0.18	0.92	9.15	0.02	-	0.04	0.04	-	0.04	0.04	1857.5	0.08	0.02
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	2028	Pumps	Pumps	2	7.5	11	0.74	Diesel	Fleet Avg	0.15	1.15	0.80	0.00	-	0.05	0.05	-	0.04	0.04	153.0	0.01	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	2028	Rough Terrain Forklifts	Rough Terrain Forklifts	2	7.5	96	0.40	Diesel	Tier 4 Final	0.06	0.33	4.70	0.01	-	0.01	0.01	-	0.01	0.01	671.3	0.03	0.01
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	7.5	84	0.37	Diesel	Tier 4 Final	0.05	0.27	3.80	0.01	-	0.01	0.01	-	0.01	0.01	544.3	0.02	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 5

OFFROAD EQUIPMENT (ONSITE)[1]

															Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	2028	Air Compressors	Air Compressors	1	7.5	37	0.48	Diesel	Fleet Avg	0.01	0.04	0.06	0.00	-	0.00	0.00	-	0.00	0.00	6.0	0.00	0.00	6.0
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	2028	Concrete/Industrial Saws	Concrete/Industrial Saws	2	7.5	33	0.73	Diesel	Fleet Avg	0.01	0.11	0.13	0.00	-	0.00	0.00	-	0.00	0.00	16.4	0.00	0.00	16.5
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	2028	Rough Terrain Forklifts	Rough Terrain Forklifts	1	7.5	96	0.40	Diesel	Tier 4 Final	0.00	0.01	0.09	0.00	-	0.00	0.00	-	0.00	0.00	12.0	0.00	0.00	12.1
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	2028	Skid Steer Loaders	Skid Steer Loaders	2	7.5	71	0.37	Diesel	Tier 4 Final	0.00	0.09	0.13	0.00	-	0.00	0.00	-	0.00	0.00	16.5	0.00	0.00	16.5
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	7.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.15	0.00	-	0.00	0.00	-	0.00	0.00	19.5	0.00	0.00	19.6
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	2029	Bore/Drill Rigs	Bore/Drill Rigs	2	7.5	83	0.50	Diesel	Tier 4 Final	0.00	0.02	0.26	0.00	-	0.00	0.00	-	0.00	0.00	33.6	0.00	0.00	33.7
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	2029	Cranes	Cranes	2	7.5	367	0.29	Diesel	Tier 4 Final	0.01	0.05	0.47	0.00	-	0.00	0.00	-	0.00	0.00	86.8	0.00	0.00	87.1
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	2029	Pumps	Pumps	2	7.5	11	0.74	Diesel	Fleet Avg	0.01	0.06	0.04	0.00	-	0.00	0.00	-	0.00	0.00	7.1	0.00	0.00	7.2
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	7.5	96	0.40	Diesel	Tier 4 Final	0.00	0.02	0.24	0.00	-	0.00	0.00	-	0.00	0.00	31.4	0.00	0.00	31.5
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	7.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.20	0.00	-	0.00	0.00	-	0.00	0.00	25.4	0.00	0.00	25.5
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	2029	Cranes	Cranes	2	7.5	367	0.29	Diesel	Tier 4 Final	0.01	0.05	0.48	0.00	-	0.00	0.00	-	0.00	0.00	87.6	0.00	0.00	87.9
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	2029	Excavators	Excavators	2	7.5	36	0.38	Diesel	Fleet Avg	0.01	0.08	0.10	0.00	-	0.00	0.00	-	0.00	0.00	12.5	0.00	0.00	12.6
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	7.5	96	0.40	Diesel	Tier 4 Final	0.00	0.02	0.24	0.00	-	0.00	0.00	-	0.00	0.00	31.7	0.00	0.00	31.8
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	7.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.20	0.00	-	0.00	0.00	-	0.00	0.00	25.7	0.00	0.00	25.7
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	2029	Cranes	Cranes	2	7.5	367	0.29	Diesel	Tier 4 Final	0.00	0.02	0.25	0.00	-	0.00	0.00	-	0.00	0.00	45.5	0.00	0.00	45.6
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	2029	Generator Sets	Generator Sets	2	7.5	14	0.74	Diesel	Fleet Avg	0.00	0.04	0.03	0.00	-	0.00	0.00	-	0.00	0.00	4.8	0.00	0.00	4.8
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	2029	Pumps	Pumps	2	7.5	11	0.74	Diesel	Fleet Avg	0.00	0.03	0.02	0.00	-	0.00	0.00	-	0.00	0.00	3.7	0.00	0.00	3.8
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	7.5	96	0.40	Diesel	Tier 4 Final	0.00	0.01	0.13	0.00	-	0.00	0.00	-	0.00	0.00	16.4	0.00	0.00	16.5
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	2029	Cranes	Cranes	4	15.0	367	0.29	Diesel	Tier 4 Final	0.04	0.22	2.20	0.00	-	0.01	0.01	-	0.01	0.01	404.3	0.02	0.00	405.7
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	2029	Generator Sets	Generator Sets	2	15.0	14	0.74	Diesel	Fleet Avg	0.02	0.18	0.12	0.00	-	0.01	0.01	-	0.01	0.01	21.2	0.00	0.00	21.3
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	2029	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.02	0.14	0.10	0.00	-	0.01	0.01	-	0.00	0.00	16.7	0.00	0.00	16.7
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.01	0.03	0.46	0.00	-	0.00	0.00	-	0.00	0.00	59.2	0.00	0.00	59.4
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	2029	Welders	Welders	2	15.0	46	0.45	Diesel	Fleet Avg	0.03	0.27	0.36	0.00	-	0.00	0.00	-	0.00	0.00	42.3	0.00	0.00	42.5
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	2030	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.06	1.06	1.14	0.00	-	0.01	0.01	-	0.01	0.01	197.8	0.01	0.00	198.5
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	2030	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.14	0.72	7.21	0.01	-	0.03	0.03	-	0.03	0.03	1327.5	0.05	0.01	1332.0
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	480.0	0.02	0.00	481.6
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	2030	Tunnel Boring Machine (TBM)	Tunnel Boring Machine (TBM	1	15.0	-	-	Electric	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.04	0.21	3.00	0.00	-	0.01	0.01	-	0.01	0.01	388.9	0.02	0.00	390.2
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	2032	Cranes	Cranes	4	15.0	367	0.29	Diesel	Tier 4 Final	0.03	0.16	1.61	0.00	-	0.01	0.01	-	0.01	0.01	296.5	0.01	0.00	297.5
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	2032	Generator Sets	Generator Sets	2	15.0	14	0.74	Diesel	Fleet Avg	0.02	0.13	0.09	0.00	-	0.00	0.00	-	0.00	0.00	15.5	0.00	0.00	15.6
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	2032	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.01	0.10	0.07	0.00	-	0.00	0.00	-	0.00	0.00	12.2	0.00	0.00	12.3
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	2032	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.00	0.02	0.33	0.00	-	0.00	0.00	-	0.00	0.00	43.4	0.00	0.00	43.6
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	2032	Welders	Welders	2	15.0	46	0.45	Diesel	Fleet Avg	0.02	0.19	0.26	0.00	-	0.00	0.00	-	0.00	0.00	31.1	0.00	0.00	31.2
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	4/15/2030	6/11/2032	7	789	20	2030	Aerial Lifts	Aerial Lifts	1	15.0	46	0.31	Diesel	Fleet Avg	0.03	0.53	0.57	0.00	-	0.00	0.00	-	0.00	0.00	99.0	0.00	0.00	99.4
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	4/15/2030	6/11/2032	7	789	20	2030	Air Compressors	Air Compressors	1	15.0	37	0.48	Diesel	Fleet Avg	0.10	0.77	1.09	0.00	-	0.01	0.01	-	0.01	0.01	119.5	0.00	0.00	119.9
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	4/15/2030	6/11/2032	7	789	20	2030	Rollers	Rollers	1	15.0	36	0.38	Diesel	Fleet Avg	0.08	0.62	0.73	0.00	-	0.02	0.02	-	0.02	0.02	95.1	0.00	0.00	95.4
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenur	6/12/2032	11/28/2033	7	535	20	2032	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.04	0.72	0.77	0.00	-	0.00	0.00	-	0.00	0.00	134.3	0.01	0.00	134.8
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenur	6/12/2032	11/28/2033	7	535	20	2032	Cement and Mortar Mixers	Cement and Mortar Mixers	2	15.0	10	0.56	Diesel	Fleet Avg	0.05	0.42	0.32	0.00	-	0.02	0.02	-	0.01	0.01	51.2	0.00	0.00	51.4
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installatio	12/1/2033	7/13/2034	7	225	20	2033	Aerial Lifts	Aerial Lifts	1	15.0	46	0.31	Diesel	Fleet Avg	0.01	0.15	0.16	0.00	-	0.00	0.00	-	0.00	0.00	28.2	0.00	0.00	28.3
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installatio	12/1/2033	7/13/2034	7	225	20	2033	Air Compressors	Air Compressors	2	15.0	37	0.48	Diesel	Fleet Avg	0.05	0.43	0.62	0.00	-	0.00	0.00	-	0.00	0.00	68.1	0.00	0.00	68.4
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installatio	12/1/2033	7/13/2034	7	225	20	2033	Generator Sets	Generator Sets	2	15.0	14	0.74	Diesel	Fleet Avg	0.04	0.33	0.22	0.00	-	0.01	0.01	-	0.01	0.01	39.7	0.00	0.00	39.9
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installatio	12/1/2033	7/13/2034	7	225	20	2033	Welders	Welders	3	15.0	46	0.45	Diesel	Fleet Avg	0.08	0.74	1.01	0.00	-	0.01	0.01	-	0.01	0.01	119.1	0.00	0.00	119.5
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Cranes	Cranes	4	15.0	367	0.29	Diesel	Tier 4 Final	0.04	0.22	2.23	0.00	-	0.01	0.01	-	0.01	0.01	411.2	0.02	0.00	412.6
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Generator Sets	Generator Sets	2	15.0	14	0.74	Diesel	Fleet Avg	0.02	0.18	0.12	0.00	-	0.01	0.01	-	0.01	0.01	21.5	0.00	0.00	21.6
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.02	0.14	0.10	0.00	-	0.01	0.01	-	0.01	0.01	16.9	0.00	0.00	17.0
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.01	0.03	0.46	0.00	-	0.00	0.00	-	0.00	0.00	60.2	0.00	0.00	60.4
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Welders	Welders	2	15.0	46	0.45	Diesel	Fleet Avg	0.03	0.28	0.37	0.00	-	0.01	0.01	-	0.00	0.00	43.1	0.00	0.00	43.2
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	2029	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.10	1.97	2.11	0.00	-	0.01	0.01	-	0.01	0.01	366.3	0.01	0.00	367.6
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	2029	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.26	1.34	13.35	0.03	-	0.05	0.05	-	0.05	0.05	2457.8	0.10	0.02	2466.3
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.09	0.48	6.86	0.01	-	0.02	0.02	-	0.02	0.02	888.7	0.04	0.01	891.7
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	2029	Tunnel Boring Machine (TBM)	Tunnel Boring Machine (TBM	1	15.0	-	-	Electric	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.07	0.39	5.55	0.01	-	0.01	0.01	-	0.01	0.01	720.0	0.03	0.01	722.5
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	2033	Cranes	Cranes	4	15.0	367	0.29	Diesel	Tier 4 Final	0.03	0.16	1.65	0.00	-	0.01	0.01	-	0.01	0.01	303.2	0.01	0.00	304.3
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	2033	Generator Sets	Generator Sets	2	15.0	14	0.74	Diesel	Fleet Avg	0.02	0.13	0.09	0.00	-	0.01	0.01	-	0.00	0.00	15.9	0.00	0.00	16.0
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	2033	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.01	0.10	0.07	0.00	-	0.00	0.00	-	0.00	0.00	12.5	0.00	0.00	12.5
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	2033	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.00	0.02	0.34	0.00	-	0.00	0.00	-	0.00	0.00	44.4	0.00	0.00	44.6
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	2033	Welders	Welders	2	15.0	46	0.45	Diesel	Fleet Avg	0.02	0.20	0.27	0.00	-	0.00	0.00	-	0.00	0.00	31.8	0.00	0.00	31.9
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	3/1/2029	2/14/2033	7	1447	20	2029	Aerial Lifts	Aerial Lifts	1	15.0	46	0.31	Diesel	Fleet Avg	0.05	0.98	1.05	0.00	-	0.01	0.01	-	0.01	0.01	181.7	0.01	0.00	182.3
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	3/1/2029	2/14/2033	7	1447	20	2029	Air Compressors	Air Compressors	1	15.0	37	0.48	Diesel	Fleet Avg	0.19	1.44	2.01	0.00	-	0.02	0.02	-	0.02	0.02	219.1	0.01	0.00	219.8
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	3/1/2029	2/14/2033	7	1447	20	2029	Rollers	Rollers	1	15.0	36	0.38	Diesel	Fleet Avg	0.16	1.14	1.34	0.00	-	0.04	0.04	-	0.04	0.04	174.3	0.01	0.00	174.9
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Slabs, Walkways, Plenum	8/23/2032	12/14/2034	7	844	20	2032	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.06	1.14	1.22	0.00	-	0.01	0.01	-	0.01	0.01	211.9	0.01	0.00	212.6
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Slabs, Walkways, Plenum	8/23/2032	12/14/2034	7	844	20	2032	Cement and Mortar Mixers	Cement and Mortar Mixers	2	15.0	10	0.56	Diesel	Fleet Avg	0.09	0.66	0.51	0.00	-	0.03	0.03	-	0.02	0.02	80.8	0.00	0.00	81.1
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	2034	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.03	0.53	0.57	0.00	-	0.00	0.00	-	0.00	0.00	98.7	0.00	0.00	99.0
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	2034	Air Compressors	Air Compressors	2	15.0	37	0.48	Diesel	Fleet Avg	0.09	0.75	1.08	0.00	-	0.01	0.01	-	0.01	0.01	119.0	0.00	0.00	119.4
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	2034	Generator Sets	Generator Sets	2	15.0	14	0.74	Diesel	Fleet Avg	0.07	0.57	0.38	0.00	-	0.02	0.02	-	0.02	0.02	69.4	0.00	0.00	69.7
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	2034	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.02	0.13	1.85	0.00	-	0.00	0.00	-	0.00	0.00	239.4	0.01	0.00	240.2
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	2027	Air Compressors	Air Compressors	1	7.5	37	0.48	Diesel	Fleet Avg	0.01	0.04	0.06	0.00	-	0.00	0.00	-	0.00	0.00	6.0	0.00	0.00	6.0
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	2027	Concrete/Industrial Saws	Concrete/Industrial Saws	2	7.5	33	0.73	Diesel	Fleet Avg	0.01	0.11	0.14	0.00	-	0.00	0.00	-	0.00	0.00	16.4	0.00	0.00	16.5
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	2027	Rough Terrain Forklifts	Rough Terrain Forklifts	1	7.5	96	0.40	Diesel	Tier 4 Final	0.00	0.01	0.09	0.00	-	0.00	0.00	-	0.00	0.00	12.0	0.00	0.00	12.1
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	2027	Skid Steer Loaders	Skid Steer Loaders	2	7.5	71	0.37	Diesel	Tier 4 Final	0.00	0.09	0.13	0.00	-	0.00	0.00	-	0.00	0.00	16.5	0.00	0.00	16.5
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	2027	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	7.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.15	0.00	-	0.00	0.00	-	0.00	0.00	19.5	0.00	0.00	19.6
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	2028	Bore/Drill Rigs	Bore/Drill Rigs	2	7.5	83	0.50	Diesel	Tier 4 Final	0.00	0.02	0.26	0.00	-	0.00	0.00	-	0.00	0.00	33.6	0.00	0.00	33.7
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	2028	Cranes	Cranes	2	7.5	367	0.29	Diesel	Tier 4 Final	0.01	0.05	0.47	0.00	-	0.00	0.00	-	0.00	0.00	86.8	0.00	0.00	87.1
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	2028	Pumps	Pumps	2	7.5	11	0.74	Diesel	Fleet Avg	0.01	0.06	0.04	0.00	-	0.00	0.00	-	0.00	0.00	7.1	0.00	0.00	7.2
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	2028	Rough Terrain Forklifts	Rough Terrain Forklifts	2	7.5	96	0.40	Diesel	Tier 4 Final	0.00	0.02	0.24	0.00	-	0.00	0.00	-	0.00	0.00	31.4	0.00	0.00	31.5
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	7.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.20	0.00	-	0.00	0.00	-	0.00	0.00	25.4	0.00	0.00	25.5

Sepulveda Transit Corridor Project - ALTERNATIVE 5

OFFROAD EQUIPMENT (ONSITE)[1]

															Emission Factor (g/bhp-hr)[3]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	2028	Cranes	Cranes	2	7.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.75	0.02	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	2028	Excavators	Excavators	2	7.5	36	0.38	Diesel	Fleet Avg	0.37	3.34	4.22	0.01	-	0.08	0.08	-	0.07	0.07	587.54	0.02	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	2028	Rough Terrain Forklifts	Rough Terrain Forklifts	2	7.5	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.60	0.02	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	7.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.57	0.02	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	2028	Cranes	Cranes	2	7.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.75	0.02	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	2028	Generator Sets	Generator Sets	2	7.5	14	0.74	Diesel	Fleet Avg	0.54	4.29	2.85	0.01	-	0.17	0.17	-	0.16	0.16	568.30	0.02	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	2028	Pumps	Pumps	2	7.5	11	0.74	Diesel	Fleet Avg	0.56	4.27	2.98	0.01	-	0.17	0.17	-	0.16	0.16	568.34	0.02	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	2028	Rough Terrain Forklifts	Rough Terrain Forklifts	2	7.5	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.60	0.02	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Cranes	Cranes	4	15.0	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.75	0.02	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Generator Sets	Generator Sets	2	15.0	14	0.74	Diesel	Fleet Avg	0.54	4.29	2.85	0.01	-	0.17	0.17	-	0.16	0.16	568.30	0.02	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.56	4.27	2.98	0.01	-	0.17	0.17	-	0.16	0.16	568.34	0.02	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.57	0.02	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Welders	Welders	2	15.0	46	0.45	Diesel	Fleet Avg	0.41	3.37	4.43	0.01	-	0.06	0.06	-	0.06	0.06	568.31	0.02	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	2029	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.15	2.86	3.07	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	2029	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	2029	Tunnel Boring Machine (TBM)	Tunnel Boring Machine (TBN	1	15.0	-	-	Electric	--	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	2032	Cranes	Cranes	4	15.0	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	2032	Generator Sets	Generator Sets	2	15.0	14	0.74	Diesel	Fleet Avg	0.53	4.26	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	2032	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.33	0.02	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	2032	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	2032	Welders	Welders	2	15.0	46	0.45	Diesel	Fleet Avg	0.35	3.21	4.36	0.01	-	0.03	0.03	-	0.03	0.03	568.31	0.02	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	4/3/2029	2/19/2032	7	1053	20	2029	Aerial Lifts	Aerial Lifts	1	15.0	46	0.31	Diesel	Fleet Avg	0.15	2.86	3.07	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	4/3/2029	2/19/2032	7	1053	20	2029	Air Compressors	Air Compressors	1	15.0	37	0.48	Diesel	Fleet Avg	0.44	3.38	4.73	0.01	-	0.05	0.05	-	0.05	0.05	568.31	0.02	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	4/3/2029	2/19/2032	7	1053	20	2029	Rollers	Rollers	1	15.0	36	0.38	Diesel	Fleet Avg	0.49	3.48	4.09	0.01	-	0.13	0.13	-	0.12	0.12	587.11	0.02	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Slabs, Walkways, Plenum	9/23/2031	5/18/2033	7	604	20	2031	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.15	2.85	3.07	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Slabs, Walkways, Plenum	9/23/2031	5/18/2033	7	604	20	2031	Cement and Mortar Mixers	Cement and Mortar Mixers	2	15.0	10	0.56	Diesel	Fleet Avg	0.55	4.19	3.25	0.01	-	0.16	0.16	-	0.15	0.15	570.20	0.02	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	2033	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.14	2.85	3.06	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	2033	Air Compressors	Air Compressors	2	15.0	37	0.48	Diesel	Fleet Avg	0.39	3.25	4.68	0.01	-	0.03	0.03	-	0.03	0.03	568.34	0.02	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	2033	Generator Sets	Generator Sets	2	15.0	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.31	0.02	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	2033	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	2030	Air Compressors	Air Compressors	1	15.0	37	0.48	Diesel	Fleet Avg	0.42	3.34	4.71	0.01	-	0.05	0.05	-	0.04	0.04	568.32	0.02	0.00
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	2030	Concrete/Industrial Saws	Concrete/Industrial Saws	2	15.0	33	0.73	Diesel	Fleet Avg	0.34	3.25	4.24	0.01	-	0.04	0.04	-	0.04	0.04	574.00	0.02	0.00
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	1	15.0	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	2030	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.37	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.01	0.02	0.00
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	2030	Bore/Drill Rigs	Bore/Drill Rigs	2	15.0	83	0.50	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.33	0.02	0.00
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	2030	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	2030	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.56	4.25	2.97	0.01	-	0.17	0.17	-	0.15	0.15	568.35	0.02	0.00
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	2030	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	2030	Excavators	Excavators	2	15.0	36	0.38	Diesel	Fleet Avg	0.33	3.30	4.19	0.01	-	0.07	0.07	-	0.06	0.06	588.07	0.02	0.00
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	2031	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	2031	Generator Sets	Generator Sets	2	15.0	14	0.74	Diesel	Fleet Avg	0.53	4.26	2.84	0.01	-	0.17	0.17	-	0.15	0.15	568.31	0.02	0.00
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	2031	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.56	4.24	2.97	0.01	-	0.17	0.17	-	0.15	0.15	568.32	0.02	0.00
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	2031	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.15	2.85	3.06	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Generator Sets	Generator Sets	2	15.0	14	0.74	Diesel	Fleet Avg	0.53	4.26	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Welders	Welders	2	15.0	46	0.45	Diesel	Fleet Avg	0.35	3.21	4.36	0.01	-	0.03	0.03	-	0.03	0.03	568.31	0.02	0.00
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	2029	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.15	2.86	3.07	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	2029	Bore/Drill Rigs	Bore/Drill Rigs	2	15.0	83	0.50	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.33	0.02	0.00
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	2029	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	2029	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.56	4.26	2.98	0.01	-	0.17	0.17	-	0.15	0.15	568.32	0.02	0.00
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	2029	Rollers	Rollers	2	15.0	36	0.38	Diesel	Fleet Avg	0.49	3.48	4.09	0.01	-	0.13	0.13	-	0.12	0.12	587.11	0.02	0.00
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	2030	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.15	2.86	3.07	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	2030	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	2030	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.56	4.25	2.97	0.01	-	0.17	0.17	-	0.15	0.15	568.35	0.02	0.00
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	2030	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.15	2.86	3.07	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	2030	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	2030	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.56	4.25	2.97	0.01	-	0.17	0.17	-	0.15	0.15	568.35	0.02	0.00
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	10/29/2030	12/24/2030	6	49	20	2030	Aerial Lifts	Aerial Lifts	4	15.0	46	0.31	Diesel	Fleet Avg	0.15	2.86	3.07	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	10/29/2030	12/24/2030	6	49	20	2030	Cranes	Cranes	4	15.0	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	10/29/2030	12/24/2030	6	49	20	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	2030	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.15	2.86	3.07	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	2030	Cranes	Cranes	4	15.0	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	2030	Excavators	Excavators	2	15.0	36	0.38	Diesel	Fleet Avg	0.33	3.30	4.19	0.01	-	0.07	0.07	-	0.06	0.06	588.07	0.02	0.00
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	2030	Other Construction Equipment	Other Construction Equipme	2	15.0	82	0.42	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	526.89	0.02	0.00
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	12/20/2031	1/20/2032	6	27	20	2031	Aerial Lifts	Aerial Lifts	4	15.0	46	0.31	Diesel	Fleet Avg	0.15	2.85	3.07	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	12/20/2031	1/20/2032	6	27	20	2031	Cranes	Cranes	4	15.0	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	12/20/2031	1/20/2032	6	27	20	2031	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	2032	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.15	2.85	3.06	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	2032	Air Compressors	Air Compressors	2	15.0	37	0.48	Diesel	Fleet Avg	0.40	3.28	4.69	0.01	-	0.03	0.03	-	0.03	0.03	568.28	0.02	0.00
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	2032	Generator Sets	Generator Sets	2	15.0	14	0.74	Diesel	Fleet Avg	0.53	4.26	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	2032	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.37	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.01	0.02	0.00
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	2032	Welders	Welders	3	15.0	46	0.45	Diesel	Fleet Avg	0.35	3.21	4.36	0.01	-	0.03	0.03	-	0.03	0.03	568.31	0.02	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 5

OFFROAD EQUIPMENT (ONSITE)[1]

															Daily Emissions (lb/day)												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	2028	Cranes	Cranes	2	7.5	367	0.29	Diesel	Tier 4 Final	0.18	0.92	9.15	0.02	-	0.04	0.04	-	0.04	0.04	1857.5	0.08	0.02
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	2028	Excavators	Excavators	2	7.5	36	0.38	Diesel	Fleet Avg	0.17	1.51	1.91	0.00	-	0.04	0.04	-	0.03	0.03	265.8	0.01	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	2028	Rough Terrain Forklifts	Rough Terrain Forklifts	2	7.5	96	0.40	Diesel	Tier 4 Final	0.06	0.33	4.70	0.01	-	0.01	0.01	-	0.01	0.01	671.3	0.03	0.01
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	7.5	84	0.37	Diesel	Tier 4 Final	0.05	0.27	3.80	0.01	-	0.01	0.01	-	0.01	0.01	544.3	0.02	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	2028	Cranes	Cranes	2	7.5	367	0.29	Diesel	Tier 4 Final	0.18	0.92	9.15	0.02	-	0.04	0.04	-	0.04	0.04	1857.5	0.08	0.02
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	2028	Generator Sets	Generator Sets	2	7.5	14	0.74	Diesel	Fleet Avg	0.18	1.47	0.98	0.00	-	0.06	0.06	-	0.05	0.05	194.7	0.01	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	2028	Pumps	Pumps	2	7.5	11	0.74	Diesel	Fleet Avg	0.15	1.15	0.80	0.00	-	0.05	0.05	-	0.04	0.04	153.0	0.01	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	2028	Rough Terrain Forklifts	Rough Terrain Forklifts	2	7.5	96	0.40	Diesel	Tier 4 Final	0.06	0.33	4.70	0.01	-	0.01	0.01	-	0.01	0.01	671.3	0.03	0.01
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Cranes	Cranes	4	15.0	367	0.29	Diesel	Tier 4 Final	0.70	3.66	36.60	0.07	-	0.14	0.14	-	0.14	0.14	7429.9	0.30	0.06
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Generator Sets	Generator Sets	2	15.0	14	0.74	Diesel	Fleet Avg	0.37	2.94	1.95	0.01	-	0.12	0.12	-	0.11	0.11	389.4	0.02	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.30	2.30	1.60	0.00	-	0.09	0.09	-	0.08	0.08	306.0	0.01	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.6	0.04	0.01
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Welders	Welders	2	15.0	46	0.45	Diesel	Fleet Avg	0.56	4.61	6.07	0.01	-	0.09	0.09	-	0.08	0.08	778.1	0.03	0.01
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	2029	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.14	2.70	2.90	0.01	-	0.02	0.02	-	0.02	0.02	553.5	0.02	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	2029	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.35	1.83	18.30	0.03	-	0.07	0.07	-	0.07	0.07	3713.9	0.15	0.03
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.13	0.66	9.40	0.01	-	0.03	0.03	-	0.03	0.03	1342.8	0.05	0.01
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	2029	Tunnel Boring Machine (TBM)	Tunnel Boring Machine (TBM	1	15.0	-	-	Electric	--	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.0	0.04	0.01
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	2032	Cranes	Cranes	4	15.0	367	0.29	Diesel	Tier 4 Final	0.70	3.66	36.60	0.07	-	0.14	0.14	-	0.14	0.14	7427.9	0.30	0.06
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	2032	Generator Sets	Generator Sets	2	15.0	14	0.74	Diesel	Fleet Avg	0.36	2.92	1.95	0.01	-	0.11	0.11	-	0.10	0.10	389.4	0.02	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	2032	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.30	2.28	1.60	0.00	-	0.09	0.09	-	0.08	0.08	306.0	0.01	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	2032	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.0	0.04	0.01
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	2032	Welders	Welders	2	15.0	46	0.45	Diesel	Fleet Avg	0.48	4.40	5.97	0.01	-	0.05	0.05	-	0.04	0.04	778.1	0.03	0.01
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	4/3/2029	2/19/2032	7	1053	20	2029	Aerial Lifts	Aerial Lifts	1	15.0	46	0.31	Diesel	Fleet Avg	0.07	1.35	1.45	0.00	-	0.01	0.01	-	0.01	0.01	276.8	0.01	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	4/3/2029	2/19/2032	7	1053	20	2029	Air Compressors	Air Compressors	1	15.0	37	0.48	Diesel	Fleet Avg	0.26	1.99	2.78	0.00	-	0.03	0.03	-	0.03	0.03	333.8	0.01	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	4/3/2029	2/19/2032	7	1053	20	2029	Rollers	Rollers	1	15.0	36	0.38	Diesel	Fleet Avg	0.22	1.57	1.85	0.00	-	0.06	0.06	-	0.05	0.05	265.6	0.01	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Slabs, Walkways, Plenum	9/23/2031	5/18/2033	7	604	20	2031	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.14	2.69	2.89	0.01	-	0.02	0.02	-	0.02	0.02	553.5	0.02	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Slabs, Walkways, Plenum	9/23/2031	5/18/2033	7	604	20	2031	Cement and Mortar Mixers	Cement and Mortar Mixers	2	15.0	10	0.56	Diesel	Fleet Avg	0.20	1.55	1.21	0.00	-	0.06	0.06	-	0.06	0.06	211.2	0.01	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	2033	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.14	2.69	2.89	0.01	-	0.02	0.02	-	0.01	0.01	553.5	0.02	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	2033	Air Compressors	Air Compressors	2	15.0	37	0.48	Diesel	Fleet Avg	0.46	3.82	5.50	0.01	-	0.04	0.04	-	0.03	0.03	667.6	0.03	0.01
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	2033	Generator Sets	Generator Sets	2	15.0	14	0.74	Diesel	Fleet Avg	0.36	2.91	1.95	0.01	-	0.11	0.11	-	0.10	0.10	389.4	0.02	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	2033	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.13	0.66	9.40	0.01	-	0.03	0.03	-	0.03	0.03	1342.8	0.05	0.01
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	2030	Air Compressors	Air Compressors	1	15.0	37	0.48	Diesel	Fleet Avg	0.25	1.96	2.77	0.00	-	0.03	0.03	-	0.03	0.03	333.8	0.01	0.00
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	2030	Concrete/Industrial Saws	Concrete/Industrial Saws	2	15.0	33	0.73	Diesel	Fleet Avg	0.54	5.19	6.76	0.01	-	0.07	0.07	-	0.06	0.06	914.5	0.04	0.01
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	1	15.0	96	0.40	Diesel	Tier 4 Final	0.06	0.33	4.70	0.01	-	0.01	0.01	-	0.01	0.01	671.4	0.03	0.01
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	2030	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.37	Diesel	Tier 4 Final	0.16	4.76	6.43	0.01	-	0.02	0.02	-	0.02	0.02	919.1	0.04	0.01
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.0	0.04	0.01
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	2030	Bore/Drill Rigs	Bore/Drill Rigs	2	15.0	83	0.50	Diesel	Tier 4 Final	0.14	0.71	10.16	0.01	-	0.03	0.03	-	0.03	0.03	1436.4	0.06	0.01
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	2030	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.35	1.83	18.30	0.03	-	0.07	0.07	-	0.07	0.07	3713.9	0.15	0.03
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	2030	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.30	2.29	1.60	0.00	-	0.09	0.09	-	0.08	0.08	306.0	0.01	0.00
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.13	0.66	9.40	0.01	-	0.03	0.03	-	0.03	0.03	1342.8	0.05	0.01
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.0	0.04	0.01
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	2030	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.35	1.83	18.30	0.03	-	0.07	0.07	-	0.07	0.07	3713.9	0.15	0.03
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	2030	Excavators	Excavators	2	15.0	36	0.38	Diesel	Fleet Avg	0.30	2.98	3.79	0.00	-	0.06	0.06	-	0.06	0.06	532.1	0.02	0.00
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.13	0.66	9.40	0.01	-	0.03	0.03	-	0.03	0.03	1342.8	0.05	0.01
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.0	0.04	0.01
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	2031	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.35	1.83	18.30	0.03	-	0.07	0.07	-	0.07	0.07	3713.9	0.15	0.03
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	2031	Generator Sets	Generator Sets	2	15.0	14	0.74	Diesel	Fleet Avg	0.36	2.92	1.95	0.01	-	0.11	0.11	-	0.10	0.10	389.4	0.02	0.00
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	2031	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.30	2.28	1.60	0.00	-	0.09	0.09	-	0.08	0.08	306.0	0.01	0.00
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	2031	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.13	0.66	9.40	0.01	-	0.03	0.03	-	0.03	0.03	1342.8	0.05	0.01
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.14	2.69	2.89	0.01	-	0.02	0.02	-	0.02	0.02	553.5	0.02	0.00
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Generator Sets	Generator Sets	2	15.0	14	0.74	Diesel	Fleet Avg	0.36	2.92	1.95	0.01	-	0.11	0.11	-	0.10	0.10	389.4	0.02	0.00
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.13	0.66	9.40	0.01	-	0.03	0.03	-	0.03	0.03	1342.8	0.05	0.01
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Welders	Welders	2	15.0	46	0.45	Diesel	Fleet Avg	0.48	4.40	5.97	0.01	-	0.05	0.05	-	0.04	0.04	778.1	0.03	0.01
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	2029	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.14	2.70	2.90	0.01	-	0.02	0.02	-	0.02	0.02	553.5	0.02	0.00
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	2029	Bore/Drill Rigs	Bore/Drill Rigs	2	15.0	83	0.50	Diesel	Tier 4 Final	0.14	0.71	10.16	0.01	-	0.03	0.03	-	0.03	0.03	1436.4	0.06	0.01
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	2029	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.35	1.83	18.30	0.03	-	0.07	0.07	-	0.07	0.07	3713.9	0.15	0.03
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	2029	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.30	2.29	1.60	0.00	-	0.09	0.09	-	0.08	0.08	306.0	0.01	0.00
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	2029	Rollers	Rollers	2	15.0	36	0.38	Diesel	Fleet Avg	0.44	3.15	3.70	0.00	-	0.11	0.11	-	0.10	0.10	531.2	0.02	0.00
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.13	0.66	9.40	0.01	-	0.03	0.03	-	0.03	0.03	1342.8	0.05	0.01
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	2030	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.14	2.70	2.89	0.01	-	0.02	0.02	-	0.02	0.02	553.5	0.02	0.00
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	2030	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.35	1.83	18.30	0.03	-	0.07	0.07	-	0.07	0.07	3713.9	0.15	0.03
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	2030	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.30	2.29	1.60	0.00	-	0.09	0.09	-	0.08	0.08	306.0	0.01	0.00
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.13	0.66	9.40	0.01	-	0.03	0.03	-	0.03	0.03	1342.8	0.05	0.01
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	2030	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.14	2.70	2.89	0.01	-	0.02	0.02	-	0.02	0.02	553.5	0.02	0.00
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	2030	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.35	1.83	18.30	0.03	-	0.07	0.07	-	0.07	0.07	3713.9	0.15	0.03
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	2030	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.30	2.29	1.60	0.00	-	0.09	0.09	-	0.08	0.08	306.0	0.01	0.00
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.13	0.66	9.40	0.01	-	0.03	0.03	-	0.03	0.03	1342.8	0.05	0.01
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	10/29/2030	12/24/2030	6	49	20	2030	Aerial Lifts	Aerial Lifts	4	15.0	46	0.31	Diesel	Fleet Avg	0.28	5.39	5.79	0.01	-	0.04	0.04	-	0.03	0.03	1107.1	0.04	0.01
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	10/29/2030	12/24/2030	6	49	20	2030	Cranes	Cranes	4	15.0	367	0.29	Diesel	Tier 4 Final	0.70	3.66	36.60	0.07	-	0.14	0.14	-	0.14	0.14	7427.9	0.30	0.06
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	10/29/2030	12/24/2030	6	49	20	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.13	0.66	9.40	0.01	-	0.03	0.03	-	0.03	0.03	1342.8	0.05	0.01
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	2030	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.14	2.70	2.89	0.01	-	0.02	0.02	-	0.02	0.02	553.5	0.02	0.00
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	2030	Cranes	Cranes	4	15.0	367	0.29	Diesel	Tier 4 Final	0.70	3.66	36.60	0.07	-	0.14	0.14	-	0.14	0.14	7427.9	0.30	0.06
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	2030	Excavators	Excavators	2	15.0	36	0.38	Diesel	Fleet Avg	0.30	2.98	3.79	0.00	-	0.06	0.06	-	0.06	0.06	532.1	0.02	0.00
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	2030	Other Construction Equipment	Other Construction Equipme	2	15.0	82	0.42	Diesel	Tier 4 Final	0.11	0.59	8.43	0.01	-	0.02	0.02	-	0.02	0.02	1200.1	0.05	0.01
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	12/20/2031	1/20/2032	6	27	20	2031	Aerial Lifts	Aerial Lifts	4	15.0	46	0.31	Diesel	Fleet Avg	0.28	5.38	5.78	0.01	-	0.03	0.03	-	0.03	0.03	1107.1	0.04	0.01
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	12/20/2031	1/20/2032	6	27	20	2031	Cranes	Cranes	4	15.0	367	0.29	Diesel	Tier 4 Final	0.70	3.66	36.60	0.07	-	0.14	0.14	-	0.14	0.14	7427.9	0.30	0.06
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	12/20/2031	1/20/2032	6	27	20	2031	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.13	0.66	9.40	0.01	-	0.03	0.03	-	0.03	0.03	1342.8	0.05	0.01
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	2032	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.14	2.69	2.89	0.01	-	0.02	0.02	-	0.02	0.02	553.5	0.02	0.00
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	2032	Air Compressors	Air Compressors	2	15.0	37	0.48	Diesel	Fleet Avg	0.47	3.85	5.50	0.01	-	0.04	0.04	-	0.04	0.04	667.5	0.03	0.01
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	2032	Generator Sets	Generator Sets	2	15.0	14	0.74	Diesel	Fleet Avg	0.36	2.92	1.95	0.01	-	0.11	0.11	-	0.10	0.10	389.4	0.02	0.00
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	2032	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.37	Diesel	Tier 4 Final	0.16	4.76	6.43	0.01	-	0.02	0.02	-	0.02	0.02	919.1	0.04	0.01
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	2032	Welders	Welders	3	15.0	46	0.45	Diesel	Fleet Avg	0.72	6.59	8.96	0.02	-	0.07	0.07	-	0.06	0.06	1167.1	0.05	0.01

Sepulveda Transit Corridor Project - ALTERNATIVE 5

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Total Emissions (tons) ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	Total Emissions (metric tons) CO_2	CH_4	N_2O	CO_2e
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	2028	Cranes	Cranes	2	7.5	367	0.29	Diesel	Tier 4 Final	0.01	0.05	0.48	0.00	-	0.00	0.00	-	0.00	0.00	89.3	0.00	0.00	89.6
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	2028	Excavators	Excavators	2	7.5	36	0.38	Diesel	Fleet Avg	0.01	0.08	0.10	0.00	-	0.00	0.00	-	0.00	0.00	12.8	0.00	0.00	12.8
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	2028	Rough Terrain Forklifts	Rough Terrain Forklifts	2	7.5	96	0.40	Diesel	Tier 4 Final	0.00	0.02	0.25	0.00	-	0.00	0.00	-	0.00	0.00	32.3	0.00	0.00	32.4
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	7.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.20	0.00	-	0.00	0.00	-	0.00	0.00	26.2	0.00	0.00	26.3
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	2028	Cranes	Cranes	2	7.5	367	0.29	Diesel	Tier 4 Final	0.00	0.01	0.12	0.00	-	0.00	0.00	-	0.00	0.00	21.9	0.00	0.00	22.0
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	2028	Generator Sets	Generator Sets	2	7.5	14	0.74	Diesel	Fleet Avg	0.00	0.02	0.01	0.00	-	0.00	0.00	-	0.00	0.00	2.3	0.00	0.00	2.3
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	2028	Pumps	Pumps	2	7.5	11	0.74	Diesel	Fleet Avg	0.00	0.01	0.01	0.00	-	0.00	0.00	-	0.00	0.00	1.8	0.00	0.00	1.8
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	2028	Rough Terrain Forklifts	Rough Terrain Forklifts	2	7.5	96	0.40	Diesel	Tier 4 Final	0.00	0.00	0.06	0.00	-	0.00	0.00	-	0.00	0.00	7.9	0.00	0.00	7.9
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Cranes	Cranes	4	15.0	367	0.29	Diesel	Tier 4 Final	0.04	0.22	2.23	0.00	-	0.01	0.01	-	0.01	0.01	411.2	0.02	0.00	412.6
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Generator Sets	Generator Sets	2	15.0	14	0.74	Diesel	Fleet Avg	0.02	0.18	0.12	0.00	-	0.01	0.01	-	0.01	0.01	21.5	0.00	0.00	21.6
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.02	0.14	0.10	0.00	-	0.01	0.01	-	0.01	0.01	16.9	0.00	0.00	17.0
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.01	0.03	0.46	0.00	-	0.00	0.00	-	0.00	0.00	60.2	0.00	0.00	60.4
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Welders	Welders	2	15.0	46	0.45	Diesel	Fleet Avg	0.03	0.28	0.37	0.00	-	0.01	0.01	-	0.00	0.00	43.1	0.00	0.00	43.2
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	2029	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.08	1.50	1.61	0.00	-	0.01	0.01	-	0.01	0.01	279.7	0.01	0.00	280.7
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	2029	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.20	1.02	10.19	0.02	-	0.04	0.04	-	0.04	0.04	1876.7	0.08	0.02	1883.1
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.07	0.37	5.23	0.01	-	0.01	0.01	-	0.01	0.01	678.5	0.03	0.01	680.9
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	2029	Tunnel Boring Machine (TBM)	Tunnel Boring Machine (TBM	1	15.0	-	-	Electric	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.06	0.30	4.24	0.01	-	0.01	0.01	-	0.01	0.01	549.7	0.02	0.00	551.6
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	2032	Cranes	Cranes	4	15.0	367	0.29	Diesel	Tier 4 Final	0.03	0.16	1.65	0.00	-	0.01	0.01	-	0.01	0.01	303.2	0.01	0.00	304.3
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	2032	Generator Sets	Generator Sets	2	15.0	14	0.74	Diesel	Fleet Avg	0.02	0.13	0.09	0.00	-	0.01	0.01	-	0.00	0.00	15.9	0.00	0.00	16.0
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	2032	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.01	0.10	0.07	0.00	-	0.00	0.00	-	0.00	0.00	12.5	0.00	0.00	12.5
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	2032	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.00	0.02	0.34	0.00	-	0.00	0.00	-	0.00	0.00	44.4	0.00	0.00	44.6
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	2032	Welders	Welders	2	15.0	46	0.45	Diesel	Fleet Avg	0.02	0.20	0.27	0.00	-	0.00	0.00	-	0.00	0.00	31.8	0.00	0.00	31.9
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	4/3/2029	2/19/2032	7	1053	20	2029	Aerial Lifts	Aerial Lifts	1	15.0	46	0.31	Diesel	Fleet Avg	0.04	0.71	0.76	0.00	-	0.00	0.00	-	0.00	0.00	132.2	0.01	0.00	132.6
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	4/3/2029	2/19/2032	7	1053	20	2029	Air Compressors	Air Compressors	1	15.0	37	0.48	Diesel	Fleet Avg	0.13	1.05	1.46	0.00	-	0.02	0.02	-	0.02	0.02	159.4	0.01	0.00	160.0
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	4/3/2029	2/19/2032	7	1053	20	2029	Rollers	Rollers	1	15.0	36	0.38	Diesel	Fleet Avg	0.12	0.83	0.98	0.00	-	0.03	0.03	-	0.03	0.03	126.9	0.01	0.00	127.3
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Slabs, Walkways, Plenum	9/23/2031	5/18/2033	7	604	20	2031	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.04	0.81	0.87	0.00	-	0.01	0.01	-	0.00	0.00	151.6	0.01	0.00	152.2
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Slabs, Walkways, Plenum	9/23/2031	5/18/2033	7	604	20	2031	Cement and Mortar Mixers	Cement and Mortar Mixers	2	15.0	10	0.56	Diesel	Fleet Avg	0.06	0.47	0.36	0.00	-	0.02	0.02	-	0.02	0.02	57.9	0.00	0.00	58.1
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	2033	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.03	0.53	0.56	0.00	-	0.00	0.00	-	0.00	0.00	98.2	0.00	0.00	98.5
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	2033	Air Compressors	Air Compressors	2	15.0	37	0.48	Diesel	Fleet Avg	0.09	0.75	1.07	0.00	-	0.01	0.01	-	0.01	0.01	118.4	0.00	0.00	118.8
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	2033	Generator Sets	Generator Sets	2	15.0	14	0.74	Diesel	Fleet Avg	0.07	0.57	0.38	0.00	-	0.02	0.02	-	0.02	0.02	69.1	0.00	0.00	69.3
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	2033	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.02	0.13	1.84	0.00	-	0.00	0.00	-	0.00	0.00	238.2	0.01	0.00	239.0
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	2030	Air Compressors	Air Compressors	1	15.0	37	0.48	Diesel	Fleet Avg	0.01	0.07	0.11	0.00	-	0.00	0.00	-	0.00	0.00	11.5	0.00	0.00	11.5
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	2030	Concrete/Industrial Saws	Concrete/Industrial Saws	2	15.0	33	0.73	Diesel	Fleet Avg	0.02	0.20	0.26	0.00	-	0.00	0.00	-	0.00	0.00	31.5	0.00	0.00	31.6
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	1	15.0	96	0.40	Diesel	Tier 4 Final	0.00	0.01	0.18	0.00	-	0.00	0.00	-	0.00	0.00	23.1	0.00	0.00	23.2
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	2030	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.37	Diesel	Tier 4 Final	0.01	0.18	0.24	0.00	-	0.00	0.00	-	0.00	0.00	31.7	0.00	0.00	31.8
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.00	0.02	0.29	0.00	-	0.00	0.00	-	0.00	0.00	37.5	0.00	0.00	37.6
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	2030	Bore/Drill Rigs	Bore/Drill Rigs	2	15.0	83	0.50	Diesel	Tier 4 Final	0.01	0.06	0.80	0.00	-	0.00	0.00	-	0.00	0.00	102.9	0.00	0.00	103.3
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	2030	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.03	0.14	1.45	0.00	-	0.01	0.01	-	0.01	0.01	266.2	0.01	0.00	267.1
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	2030	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.02	0.18	0.13	0.00	-	0.01	0.01	-	0.01	0.01	21.9	0.00	0.00	22.0
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.01	0.05	0.74	0.00	-	0.00	0.00	-	0.00	0.00	96.2	0.00	0.00	96.6
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.01	0.04	0.60	0.00	-	0.00	0.00	-	0.00	0.00	78.0	0.00	0.00	78.2
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	2030	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.05	0.24	2.38	0.00	-	0.01	0.01	-	0.01	0.01	438.0	0.02	0.00	439.5
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	2030	Excavators	Excavators	2	15.0	36	0.38	Diesel	Fleet Avg	0.04	0.39	0.49	0.00	-	0.01	0.01	-	0.01	0.01	62.7	0.00	0.00	63.0
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.02	0.09	1.22	0.00	-	0.00	0.00	-	0.00	0.00	158.4	0.01	0.00	158.9
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.01	0.07	0.99	0.00	-	0.00	0.00	-	0.00	0.00	128.3	0.01	0.00	128.7
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	2031	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.06	0.33	3.26	0.01	-	0.01	0.01	-	0.01	0.01	599.7	0.02	0.00	601.8
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	2031	Generator Sets	Generator Sets	2	15.0	14	0.74	Diesel	Fleet Avg	0.06	0.52	0.35	0.00	-	0.02	0.02	-	0.02	0.02	62.9	0.00	0.00	63.1
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	2031	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.05	0.41	0.28	0.00	-	0.02	0.02	-	0.01	0.01	49.4	0.00	0.00	49.6
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	2031	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.02	0.12	1.67	0.00	-	0.00	0.00	-	0.00	0.00	216.8	0.01	0.00	217.6
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.01	0.21	0.22	0.00	-	0.00	0.00	-	0.00	0.00	38.9	0.00	0.00	39.1
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Generator Sets	Generator Sets	2	15.0	14	0.74	Diesel	Fleet Avg	0.03	0.23	0.15	0.00	-	0.01	0.01	-	0.01	0.01	27.4	0.00	0.00	27.5
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.01	0.05	0.73	0.00	-	0.00	0.00	-	0.00	0.00	94.4	0.00	0.00	94.7
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Welders	Welders	2	15.0	46	0.45	Diesel	Fleet Avg	0.04	0.34	0.46	0.00	-	0.00	0.00	-	0.00	0.00	54.7	0.00	0.00	54.9
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	2029	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.01	0.11	0.11	0.00	-	0.00	0.00	-	0.00	0.00	19.6	0.00	0.00	19.7
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	2029	Bore/Drill Rigs	Bore/Drill Rigs	2	15.0	83	0.50	Diesel	Tier 4 Final	0.01	0.03	0.40	0.00	-	0.00	0.00	-	0.00	0.00	50.8	0.00	0.00	51.0
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	2029	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.01	0.07	0.71	0.00	-	0.00	0.00	-	0.00	0.00	131.4	0.01	0.00	131.9
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	2029	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.01	0.09	0.06	0.00	-	0.00	0.00	-	0.00	0.00	10.8	0.00	0.00	10.9
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	2029	Rollers	Rollers	2	15.0	36	0.38	Diesel	Fleet Avg	0.02	0.12	0.14	0.00	-	0.00	0.00	-	0.00	0.00	18.8	0.00	0.00	18.9
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.00	0.03	0.37	0.00	-	0.00	0.00	-	0.00	0.00	47.5	0.00	0.00	47.7
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	2030	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.02	0.32	0.34	0.00	-	0.00	0.00	-	0.00	0.00	58.8	0.00	0.00	59.0
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	2030	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.04	0.21	2.14	0.00	-	0.01	0.01	-	0.01	0.01	394.2	0.02	0.00	395.6
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	2030	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.04	0.27	0.19	0.00	-	0.01	0.01	-	0.01	0.01	32.5	0.00	0.00	32.6
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.01	0.08	1.10	0.00	-	0.00	0.00	-	0.00	0.00	142.5	0.01	0.00	143.0
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	2030	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.01	0.10	0.11	0.00	-	0.00	0.00	-	0.00	0.00	18.3	0.00	0.00	18.4
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	2030	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.01	0.07	0.67	0.00	-	0.00	0.00	-	0.00	0.00	123.0	0.00	0.00	123.4
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	2030	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.01	0.08	0.06	0.00	-	0.00	0.00	-	0.00	0.00	10.1	0.00	0.00	10.2
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.00	0.02	0.34	0.00	-	0.00	0.00	-	0.00	0.00	44.5	0.00	0.00	44.6
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	10/29/2030	12/24/2030	6	49	20	2030	Aerial Lifts	Aerial Lifts	4	15.0	46	0.31	Diesel	Fleet Avg	0.01	0.13	0.14	0.00	-	0.00	0.00	-	0.00	0.00	24.6	0.00	0.00	24.7
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	10/29/2030	12/24/2030	6	49	20	2030	Cranes	Cranes	4	15.0	367	0.29	Diesel	Tier 4 Final	0.02	0.09	0.90	0.00	-	0.00	0.00	-	0.00	0.00	165.1	0.01	0.00	165.7
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	10/29/2030	12/24/2030	6	49	20	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.00	0.02	0.23	0.00	-	0.00	0.00	-	0.00	0.00	29.8	0.00	0.00	29.9
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	2030	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.02	0.42	0.45	0.00	-	0.00	0.00	-	0.00	0.00	77.6	0.00	0.00	77.8
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	2030	Cranes	Cranes	4	15.0	367	0.29	Diesel	Tier 4 Final	0.11	0.57	5.66	0.01	-	0.02	0.02	-	0.02	0.02	1041.1	0.04	0.01	1044.7
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	2030	Excavators	Excavators	2	15.0	36	0.38	Diesel	Fleet Avg	0.05	0.46	0.59	0.00	-	0.01	0.01	-	0.01	0.01	74.6	0.00	0.00	74.8
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	2030	Other Construction Equipment	Other Construction Equipme	2	15.0	82	0.42	Diesel	Tier 4 Final	0.02	0.09	1.30	0.00	-	0.00	0.00	-	0.00	0.00	168.2	0.01	0.00	168.8
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	12/20/2031	1/20/2032	6	27	20	2031	Aerial Lifts	Aerial Lifts	4	15.0	46	0.31	Diesel	Fleet Avg	0.00	0.07	0.08	0.00	-	0.00	0.00	-	0.00	0.00	13.6	0.00	0.00	13.6
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	12/20/2031	1/20/2032	6	27	20	2031	Cranes	Cranes	4	15.0	367	0.29	Diesel	Tier 4 Final	0.01	0.05	0.49	0.00	-	0.00	0.00	-	0.00	0.00	91.0	0.00	0.00	91.3
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	12/20/2031	1/20/2032	6	27	20	2031	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.00	0.01	0.13	0.00	-	0.00	0.00	-	0.00	0.00	16.4	0.00	0.00	16.5
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	2032	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.02	0.31	0.34	0.00	-	0.00	0.00	-	0.00	0.00	58.8	0.00	0.00	59.0
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	2032	Air Compressors	Air Compressors	2	15.0	37	0.48	Diesel	Fleet Avg	0.05	0.45	0.64	0.00	-	0.00	0.00	-	0.00	0.00	70.9	0.00	0.00	71.1
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	2032	Generator Sets	Generator Sets	2	15.0	14	0.74	Diesel	Fleet Avg	0.04	0.34	0.23	0.00	-	0.01	0.01	-	0.01	0.01	41.3	0.00	0.00	41.5
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	2032	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.37	Diesel	Tier 4 Final	0.02	0.56	0.75	0.00	-	0.00	0.00	-	0.00	0.00	97.6	0.00	0.00	97.9
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	2032	Welders	Welders	3	15.0	46	0.45	Diesel	Fleet Avg	0.08	0.77	1.05	0.00	-	0.01	0.01	-	0.01	0.01	123.9	0.01	0.00	124.3

Sepulveda Transit Corridor Project - ALTERNATIVE 5

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Emission Factor (g/bhp-hr)[3] ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Air Compressors	Air Compressors	2	15.0	37	0.48	Diesel	Fleet Avg	0.40	3.28	4.69	0.01	-	0.03	0.03	-	0.03	0.03	568.28	0.02	0.00
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Generator Sets	Generator Sets	2	15.0	14	0.74	Diesel	Fleet Avg	0.53	4.26	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Welders	Welders	2	15.0	46	0.45	Diesel	Fleet Avg	0.35	3.21	4.36	0.01	-	0.03	0.03	-	0.03	0.03	568.31	0.02	0.00
Segment 6-Reach 3 Portal to MSF-Paving	7/19/2032	7/14/2033	6	310	20	2032	Pavers	Pavers	1	15.0	81	0.42	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	525.85	0.02	0.00
Segment 6-Reach 3 Portal to MSF-Paving	7/19/2032	7/14/2033	6	310	20	2032	Paving Equipment	Paving Equipment	1	15.0	89	0.36	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Segment 6-Reach 3 Portal to MSF-Paving	7/19/2032	7/14/2033	6	310	20	2032	Rollers	Rollers	1	15.0	36	0.38	Diesel	Fleet Avg	0.42	3.41	4.01	0.01	-	0.10	0.10	-	0.09	0.09	587.11	0.02	0.00
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Air Compressors	Air Compressors	1	7.5	37	0.48	Diesel	Fleet Avg	0.42	3.34	4.71	0.01	-	0.05	0.05	-	0.04	0.04	568.32	0.02	0.00
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Concrete/Industrial Saws	Concrete/Industrial Saws	2	7.5	33	0.73	Diesel	Fleet Avg	0.34	3.25	4.24	0.01	-	0.04	0.04	-	0.04	0.04	574.00	0.02	0.00
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	1	7.5	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Skid Steer Loaders	Skid Steer Loaders	2	7.5	71	0.37	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.01	0.02	0.00
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	7.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	2030	Bore/Drill Rigs	Bore/Drill Rigs	2	7.5	83	0.50	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.33	0.02	0.00
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	2030	Cranes	Cranes	2	7.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	2030	Pumps	Pumps	2	7.5	11	0.74	Diesel	Fleet Avg	0.56	4.25	2.97	0.01	-	0.17	0.17	-	0.15	0.15	568.35	0.02	0.00
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	7.5	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	7.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	2030	Cranes	Cranes	2	7.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	2030	Excavators	Excavators	2	7.5	36	0.38	Diesel	Fleet Avg	0.33	3.30	4.19	0.01	-	0.07	0.07	-	0.06	0.06	588.07	0.02	0.00
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	7.5	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	7.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	2030	Cranes	Cranes	2	7.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	2030	Generator Sets	Generator Sets	2	7.5	14	0.74	Diesel	Fleet Avg	0.53	4.27	2.84	0.01	-	0.17	0.17	-	0.15	0.15	568.32	0.02	0.00
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	2030	Pumps	Pumps	2	7.5	11	0.74	Diesel	Fleet Avg	0.56	4.25	2.97	0.01	-	0.17	0.17	-	0.15	0.15	568.35	0.02	0.00
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	7.5	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	2030	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.15	2.86	3.07	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	2030	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	1	15.0	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	2030	Sweepers/Scrubbers	Sweepers/Scrubbers	1	15.0	36	0.46	Diesel	Fleet Avg	0.46	3.55	4.66	0.01	-	0.11	0.11	-	0.10	0.10	586.87	0.02	0.00
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Air Compressors	Air Compressors	1	15.0	37	0.48	Diesel	Fleet Avg	0.48	3.54	4.79	0.01	-	0.08	0.08	-	0.07	0.07	568.32	0.02	0.00
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Concrete/Industrial Saws	Concrete/Industrial Saws	2	15.0	33	0.73	Diesel	Fleet Avg	0.39	3.43	4.29	0.01	-	0.07	0.07	-	0.07	0.07	574.33	0.02	0.00
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Rough Terrain Forklifts	Rough Terrain Forklifts	1	15.0	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.69	0.02	0.00
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.37	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.66	0.02	0.00
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.62	0.02	0.00
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Bore/Drill Rigs	Bore/Drill Rigs	2	15.0	83	0.50	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.64	0.02	0.00
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.75	0.02	0.00
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.56	4.27	2.98	0.01	-	0.17	0.17	-	0.16	0.16	568.34	0.02	0.00
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.60	0.02	0.00
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.57	0.02	0.00
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	2029	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.15	2.86	3.07	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	2029	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	2029	Excavators	Excavators	2	15.0	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Metro E Line Stn_U-Alt5-TBM Pass Through-Maintenance	8/1/2030	9/30/2030	6	52	20	2030	Cranes	Cranes	1	15.0	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Metro E Line Stn_U-Alt5-TBM Pass Through-Maintenance	8/1/2030	9/30/2030	6	52	20	2030	Generator Sets	Generator Sets	1	15.0	14	0.74	Diesel	Fleet Avg	0.53	4.27	2.84	0.01	-	0.17	0.17	-	0.15	0.15	568.32	0.02	0.00
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	2030	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.15	2.86	3.07	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	2030	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	2030	Excavators	Excavators	2	15.0	36	0.38	Diesel	Fleet Avg	0.33	3.30	4.19	0.01	-	0.07	0.07	-	0.06	0.06	588.07	0.02	0.00
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	2030	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.56	4.25	2.97	0.01	-	0.17	0.17	-	0.15	0.15	568.35	0.02	0.00
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	2030	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.37	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.01	0.02	0.00
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	2031	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.15	2.85	3.07	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	2031	Cement and Mortar Mixers	Cement and Mortar Mixers	1	15.0	10	0.56	Diesel	Fleet Avg	0.55	4.19	3.25	0.01	-	0.16	0.16	-	0.15	0.15	570.20	0.02	0.00
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	2031	Generator Sets	Generator Sets	2	15.0	14	0.74	Diesel	Fleet Avg	0.53	4.26	2.84	0.01	-	0.17	0.17	-	0.15	0.15	568.31	0.02	0.00
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	2031	Pumps	Pumps	1	15.0	11	0.74	Diesel	Fleet Avg	0.56	4.24	2.97	0.01	-	0.17	0.17	-	0.15	0.15	568.32	0.02	0.00
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	2031	Welders	Welders	2	15.0	46	0.45	Diesel	Fleet Avg	0.36	3.24	4.37	0.01	-	0.04	0.04	-	0.04	0.04	568.30	0.02	0.00
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	2034	Aerial Lifts	Aerial Lifts	1	15.0	46	0.31	Diesel	Fleet Avg	0.14	2.85	3.06	0.01	-	0.02	0.02	-	0.01	0.01	586.90	0.02	0.00
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	2034	Air Compressors	Air Compressors	1	15.0	37	0.48	Diesel	Fleet Avg	0.39	3.23	4.68	0.01	-	0.03	0.03	-	0.02	0.02	568.40	0.02	0.00
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	2034	Pavers	Pavers	1	15.0	81	0.42	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	525.86	0.02	0.00
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	2034	Paving Equipment	Paving Equipment	1	15.0	89	0.36	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	2034	Rollers	Rollers	1	15.0	36	0.38	Diesel	Fleet Avg	0.37	3.36	3.94	0.01	-	0.09	0.09	-	0.08	0.08	587.11	0.02	0.00
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	2028	Air Compressors	Air Compressors	1	15.0	37	0.48	Diesel	Fleet Avg	0.46	3.44	4.76	0.01	-	0.07	0.07	-	0.06	0.06	568.34	0.02	0.00
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	2028	Concrete/Industrial Saws	Concrete/Industrial Saws	2	15.0	33	0.73	Diesel	Fleet Avg	0.37	3.34	4.27	0.01	-	0.06	0.06	-	0.05	0.05	574.38	0.02	0.00
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	2028	Rough Terrain Forklifts	Rough Terrain Forklifts	1	15.0	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.60	0.02	0.00
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	2028	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.37	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.61	0.02	0.00
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.57	0.02	0.00
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	2029	Bore/Drill Rigs	Bore/Drill Rigs	2	15.0	83	0.50	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.33	0.02	0.00
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	2029	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	2029	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.56	4.26	2.98	0.01	-	0.17	0.17	-	0.15	0.15	568.32	0.02	0.00
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 5

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Daily Emissions (lb/day) ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Air Compressors	Air Compressors	2	15.0	37	0.48	Diesel	Fleet Avg	0.47	3.85	5.50	0.01	-	0.04	0.04	-	0.04	0.04	667.5	0.03	0.01
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Generator Sets	Generator Sets	2	15.0	14	0.74	Diesel	Fleet Avg	0.36	2.92	1.95	0.01	-	0.11	0.11	-	0.10	0.10	389.4	0.02	0.00
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.35	1.83	18.30	0.03	-	0.07	0.07	-	0.07	0.07	3713.9	0.15	0.03
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Welders	Welders	2	15.0	46	0.45	Diesel	Fleet Avg	0.48	4.40	5.97	0.01	-	0.05	0.05	-	0.04	0.04	778.1	0.03	0.01
Segment 6-Reach 3 Portal to MSF-Paving	7/19/2032	7/14/2033	6	310	20	2032	Pavers	Pavers	1	15.0	81	0.42	Diesel	Tier 4 Final	0.06	0.29	4.16	0.01	-	0.01	0.01	-	0.01	0.01	591.6	0.02	0.00
Segment 6-Reach 3 Portal to MSF-Paving	7/19/2032	7/14/2033	6	310	20	2032	Paving Equipment	Paving Equipment	1	15.0	89	0.36	Diesel	Tier 4 Final	0.05	0.28	3.92	0.01	-	0.01	0.01	-	0.01	0.01	559.0	0.02	0.00
Segment 6-Reach 3 Portal to MSF-Paving	7/19/2032	7/14/2033	6	310	20	2032	Rollers	Rollers	1	15.0	36	0.38	Diesel	Fleet Avg	0.19	1.54	1.81	0.00	-	0.05	0.05	-	0.04	0.04	265.6	0.01	0.00
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Air Compressors	Air Compressors	1	7.5	37	0.48	Diesel	Fleet Avg	0.12	0.98	1.38	0.00	-	0.01	0.01	-	0.01	0.01	166.9	0.01	0.00
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Concrete/Industrial Saws	Concrete/Industrial Saws	2	7.5	33	0.73	Diesel	Fleet Avg	0.27	2.59	3.38	0.01	-	0.03	0.03	-	0.03	0.03	457.3	0.02	0.00
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	1	7.5	96	0.40	Diesel	Tier 4 Final	0.03	0.17	2.35	0.00	-	0.01	0.01	-	0.01	0.01	335.7	0.01	0.00
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Skid Steer Loaders	Skid Steer Loaders	2	7.5	71	0.37	Diesel	Tier 4 Final	0.08	2.38	3.21	0.00	-	0.01	0.01	-	0.01	0.01	459.6	0.02	0.00
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	7.5	84	0.37	Diesel	Tier 4 Final	0.05	0.27	3.80	0.01	-	0.01	0.01	-	0.01	0.01	544.0	0.02	0.00
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	2030	Bore/Drill Rigs	Bore/Drill Rigs	2	7.5	83	0.50	Diesel	Tier 4 Final	0.07	0.36	5.08	0.01	-	0.01	0.01	-	0.01	0.01	718.2	0.03	0.01
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	2030	Cranes	Cranes	2	7.5	367	0.29	Diesel	Tier 4 Final	0.18	0.92	9.15	0.02	-	0.04	0.04	-	0.04	0.04	1857.0	0.08	0.02
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	2030	Pumps	Pumps	2	7.5	11	0.74	Diesel	Fleet Avg	0.15	1.14	0.80	0.00	-	0.04	0.04	-	0.04	0.04	153.0	0.01	0.00
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	7.5	96	0.40	Diesel	Tier 4 Final	0.06	0.33	4.70	0.01	-	0.01	0.01	-	0.01	0.01	671.4	0.03	0.01
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	7.5	84	0.37	Diesel	Tier 4 Final	0.05	0.27	3.80	0.01	-	0.01	0.01	-	0.01	0.01	544.0	0.02	0.00
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	2030	Cranes	Cranes	2	7.5	367	0.29	Diesel	Tier 4 Final	0.18	0.92	9.15	0.02	-	0.04	0.04	-	0.04	0.04	1857.0	0.08	0.02
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	2030	Excavators	Excavators	2	7.5	36	0.38	Diesel	Fleet Avg	0.15	1.49	1.90	0.00	-	0.03	0.03	-	0.03	0.03	266.0	0.01	0.00
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	7.5	96	0.40	Diesel	Tier 4 Final	0.06	0.33	4.70	0.01	-	0.01	0.01	-	0.01	0.01	671.4	0.03	0.01
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	7.5	84	0.37	Diesel	Tier 4 Final	0.05	0.27	3.80	0.01	-	0.01	0.01	-	0.01	0.01	544.0	0.02	0.00
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	2030	Cranes	Cranes	2	7.5	367	0.29	Diesel	Tier 4 Final	0.18	0.92	9.15	0.02	-	0.04	0.04	-	0.04	0.04	1857.0	0.08	0.02
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	2030	Generator Sets	Generator Sets	2	7.5	14	0.74	Diesel	Fleet Avg	0.18	1.46	0.97	0.00	-	0.06	0.06	-	0.05	0.05	194.7	0.01	0.00
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	2030	Pumps	Pumps	2	7.5	11	0.74	Diesel	Fleet Avg	0.15	1.14	0.80	0.00	-	0.04	0.04	-	0.04	0.04	153.0	0.01	0.00
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	7.5	96	0.40	Diesel	Tier 4 Final	0.06	0.33	4.70	0.01	-	0.01	0.01	-	0.01	0.01	671.4	0.03	0.01
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	2030	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.14	2.70	2.89	0.01	-	0.02	0.02	-	0.02	0.02	553.5	0.02	0.00
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	2030	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.35	1.83	18.30	0.03	-	0.07	0.07	-	0.07	0.07	3713.9	0.15	0.03
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	1	15.0	96	0.40	Diesel	Tier 4 Final	0.06	0.33	4.70	0.01	-	0.01	0.01	-	0.01	0.01	671.4	0.03	0.01
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	2030	Sweepers/Scrubbers	Sweepers/Scrubbers	1	15.0	36	0.46	Diesel	Fleet Avg	0.25	1.95	2.55	0.00	-	0.06	0.06	-	0.06	0.06	321.4	0.01	0.00
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.0	0.04	0.01
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Air Compressors	Air Compressors	1	15.0	37	0.48	Diesel	Fleet Avg	0.28	2.08	2.81	0.00	-	0.05	0.05	-	0.04	0.04	333.8	0.01	0.00
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Concrete/Industrial Saws	Concrete/Industrial Saws	2	15.0	33	0.73	Diesel	Fleet Avg	0.62	5.46	6.84	0.01	-	0.11	0.11	-	0.10	0.10	915.1	0.04	0.01
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Rough Terrain Forklifts	Rough Terrain Forklifts	1	15.0	96	0.40	Diesel	Tier 4 Final	0.06	0.33	4.70	0.01	-	0.01	0.01	-	0.01	0.01	671.4	0.03	0.01
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.37	Diesel	Tier 4 Final	0.16	4.76	6.43	0.01	-	0.02	0.02	-	0.02	0.02	918.5	0.04	0.01
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.7	0.04	0.01
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Bore/Drill Rigs	Bore/Drill Rigs	2	15.0	83	0.50	Diesel	Tier 4 Final	0.14	0.71	10.16	0.01	-	0.03	0.03	-	0.03	0.03	1437.3	0.06	0.01
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.35	1.83	18.30	0.03	-	0.07	0.07	-	0.07	0.07	3714.9	0.15	0.03
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.30	2.30	1.60	0.00	-	0.09	0.09	-	0.08	0.08	306.0	0.01	0.00
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.13	0.66	9.40	0.01	-	0.03	0.03	-	0.03	0.03	1342.5	0.05	0.01
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.6	0.04	0.01
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	2029	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.14	2.70	2.90	0.01	-	0.02	0.02	-	0.02	0.02	553.5	0.02	0.00
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	2029	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.35	1.83	18.30	0.03	-	0.07	0.07	-	0.07	0.07	3713.9	0.15	0.03
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	2029	Excavators	Excavators	2	15.0	36	0.38	Diesel	Fleet Avg	0.32	3.00	3.82	0.00	-	0.07	0.07	-	0.06	0.06	532.1	0.02	0.00
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.0	0.04	0.01
Metro E Line Stn_U-Alt5-TBM Pass Through-Maintenance	8/1/2030	9/30/2030	6	52	20	2030	Cranes	Cranes	1	15.0	367	0.29	Diesel	Tier 4 Final	0.18	0.92	9.15	0.02	-	0.04	0.04	-	0.04	0.04	1857.0	0.08	0.02
Metro E Line Stn_U-Alt5-TBM Pass Through-Maintenance	8/1/2030	9/30/2030	6	52	20	2030	Generator Sets	Generator Sets	1	15.0	14	0.74	Diesel	Fleet Avg	0.18	1.46	0.97	0.00	-	0.06	0.06	-	0.05	0.05	194.7	0.01	0.00
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	2030	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.14	2.70	2.89	0.01	-	0.02	0.02	-	0.02	0.02	553.5	0.02	0.00
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	2030	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.35	1.83	18.30	0.03	-	0.07	0.07	-	0.07	0.07	3713.9	0.15	0.03
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	2030	Excavators	Excavators	2	15.0	36	0.38	Diesel	Fleet Avg	0.30	2.98	3.79	0.00	-	0.06	0.06	-	0.06	0.06	532.1	0.02	0.00
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	2030	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.30	2.29	1.60	0.00	-	0.09	0.09	-	0.08	0.08	306.0	0.01	0.00
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	2030	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.37	Diesel	Tier 4 Final	0.16	4.76	6.43	0.01	-	0.02	0.02	-	0.02	0.02	919.1	0.04	0.01
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.0	0.04	0.01
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	2031	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.14	2.69	2.89	0.01	-	0.02	0.02	-	0.02	0.02	553.5	0.02	0.00
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	2031	Cement and Mortar Mixers	Cement and Mortar Mixers	1	15.0	10	0.56	Diesel	Fleet Avg	0.10	0.78	0.60	0.00	-	0.03	0.03	-	0.03	0.03	105.6	0.00	0.00
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	2031	Generator Sets	Generator Sets	2	15.0	14	0.74	Diesel	Fleet Avg	0.36	2.92	1.95	0.01	-	0.11	0.11	-	0.10	0.10	389.4	0.02	0.00
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	2031	Pumps	Pumps	1	15.0	11	0.74	Diesel	Fleet Avg	0.15	1.14	0.80	0.00	-	0.04	0.04	-	0.04	0.04	153.0	0.01	0.00
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	2031	Welders	Welders	2	15.0	46	0.45	Diesel	Fleet Avg	0.49	4.44	5.99	0.01	-	0.05	0.05	-	0.05	0.05	778.0	0.03	0.01
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	2034	Aerial Lifts	Aerial Lifts	1	15.0	46	0.31	Diesel	Fleet Avg	0.07	1.34	1.44	0.00	-	0.01	0.01	-	0.01	0.01	276.8	0.01	0.00
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	2034	Air Compressors	Air Compressors	1	15.0	37	0.48	Diesel	Fleet Avg	0.23	1.90	2.75	0.00	-	0.02	0.02	-	0.01	0.01	333.8	0.01	0.00
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	2034	Pavers	Pavers	1	15.0	81	0.42	Diesel	Tier 4 Final	0.06	0.29	4.16	0.01	-	0.01	0.01	-	0.01	0.01	591.6	0.02	0.00
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	2034	Paving Equipment	Paving Equipment	1	15.0	89	0.36	Diesel	Tier 4 Final	0.05	0.28	3.92	0.01	-	0.01	0.01	-	0.01	0.01	559.0	0.02	0.00
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	2034	Rollers	Rollers	1	15.0	36	0.38	Diesel	Fleet Avg	0.17	1.52	1.78	0.00	-	0.04	0.04	-	0.04	0.04	265.6	0.01	0.00
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	2028	Air Compressors	Air Compressors	1	15.0	37	0.48	Diesel	Fleet Avg	0.27	2.02	2.80	0.00	-	0.04	0.04	-	0.04	0.04	333.8	0.01	0.00
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	2028	Concrete/Industrial Saws	Concrete/Industrial Saws	2	15.0	33	0.73	Diesel	Fleet Avg	0.59	5.33	6.81	0.01	-	0.09	0.09	-	0.08	0.08	915.1	0.04	0.01
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	2028	Rough Terrain Forklifts	Rough Terrain Forklifts	1	15.0	96	0.40	Diesel	Tier 4 Final	0.06	0.33	4.70	0.01	-	0.01	0.01	-	0.01	0.01	671.3	0.03	0.01
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	2028	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.37	Diesel	Tier 4 Final	0.16	4.76	6.43	0.01	-	0.02	0.02	-	0.02	0.02	918.4	0.04	0.01
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.6	0.04	0.01
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	2029	Bore/Drill Rigs	Bore/Drill Rigs	2	15.0	83	0.50	Diesel	Tier 4 Final	0.14	0.71	10.16	0.01	-	0.03	0.03	-	0.03	0.03	1436.4	0.06	0.01
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	2029	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.35	1.83	18.30	0.03	-	0.07	0.07	-	0.07	0.07	3713.9	0.15	0.03
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	2029	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.30	2.29	1.60	0.00	-	0.09	0.09	-	0.08	0.08	306.0	0.01	0.00
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.13	0.66	9.40	0.01	-	0.03	0.03	-	0.03	0.03	1342.8	0.05	0.01
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.0	0.04	0.01

Sepulveda Transit Corridor Project - ALTERNATIVE 5

OFFROAD EQUIPMENT (ONSITE)[1]

														Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Air Compressors	Air Compressors	2	15.0	37	0.48	Diesel	Fleet Avg	0.04	0.30	0.43	0.00	-	0.00	0.00	-	0.00	0.00	46.9	0.00	0.00	47.1
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Generator Sets	Generator Sets	2	15.0	14	0.74	Diesel	Fleet Avg	0.03	0.23	0.15	0.00	-	0.01	0.01	-	0.01	0.01	27.4	0.00	0.00	27.5
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.03	0.14	1.42	0.00	-	0.01	0.01	-	0.01	0.01	261.1	0.01	0.00	262.0
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Welders	Welders	2	15.0	46	0.45	Diesel	Fleet Avg	0.04	0.34	0.46	0.00	-	0.00	0.00	-	0.00	0.00	54.7	0.00	0.00	54.9
Segment 6-Reach 3 Portal to MSF-Paving	7/19/2032	7/14/2033	6	310	20	2032	Pavers	Pavers	1	15.0	81	0.42	Diesel	Tier 4 Final	0.01	0.05	0.65	0.00	-	0.00	0.00	-	0.00	0.00	83.2	0.00	0.00	83.5
Segment 6-Reach 3 Portal to MSF-Paving	7/19/2032	7/14/2033	6	310	20	2032	Paving Equipment	Paving Equipment	1	15.0	89	0.36	Diesel	Tier 4 Final	0.01	0.04	0.61	0.00	-	0.00	0.00	-	0.00	0.00	78.6	0.00	0.00	78.9
Segment 6-Reach 3 Portal to MSF-Paving	7/19/2032	7/14/2033	6	310	20	2032	Rollers	Rollers	1	15.0	36	0.38	Diesel	Fleet Avg	0.03	0.24	0.28	0.00	-	0.01	0.01	-	0.01	0.01	37.3	0.00	0.00	37.5
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Air Compressors	Air Compressors	1	7.5	37	0.48	Diesel	Fleet Avg	0.00	0.03	0.04	0.00	-	0.00	0.00	-	0.00	0.00	4.2	0.00	0.00	4.3
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Concrete/Industrial Saws	Concrete/Industrial Saws	2	7.5	33	0.73	Diesel	Fleet Avg	0.01	0.07	0.09	0.00	-	0.00	0.00	-	0.00	0.00	11.6	0.00	0.00	11.7
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	1	7.5	96	0.40	Diesel	Tier 4 Final	0.00	0.00	0.07	0.00	-	0.00	0.00	-	0.00	0.00	8.5	0.00	0.00	8.6
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Skid Steer Loaders	Skid Steer Loaders	2	7.5	71	0.37	Diesel	Tier 4 Final	0.00	0.07	0.09	0.00	-	0.00	0.00	-	0.00	0.00	11.7	0.00	0.00	11.7
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	7.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.11	0.00	-	0.00	0.00	-	0.00	0.00	13.8	0.00	0.00	13.9
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	2030	Bore/Drill Rigs	Bore/Drill Rigs	2	7.5	83	0.50	Diesel	Tier 4 Final	0.00	0.01	0.14	0.00	-	0.00	0.00	-	0.00	0.00	17.6	0.00	0.00	17.7
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	2030	Cranes	Cranes	2	7.5	367	0.29	Diesel	Tier 4 Final	0.00	0.02	0.25	0.00	-	0.00	0.00	-	0.00	0.00	45.5	0.00	0.00	45.6
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	2030	Pumps	Pumps	2	7.5	11	0.74	Diesel	Fleet Avg	0.00	0.03	0.02	0.00	-	0.00	0.00	-	0.00	0.00	3.7	0.00	0.00	3.8
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	7.5	96	0.40	Diesel	Tier 4 Final	0.00	0.01	0.13	0.00	-	0.00	0.00	-	0.00	0.00	16.4	0.00	0.00	16.5
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	7.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.10	0.00	-	0.00	0.00	-	0.00	0.00	13.3	0.00	0.00	13.4
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	2030	Cranes	Cranes	2	7.5	367	0.29	Diesel	Tier 4 Final	0.00	0.02	0.24	0.00	-	0.00	0.00	-	0.00	0.00	43.8	0.00	0.00	44.0
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	2030	Excavators	Excavators	2	7.5	36	0.38	Diesel	Fleet Avg	0.00	0.04	0.05	0.00	-	0.00	0.00	-	0.00	0.00	6.3	0.00	0.00	6.3
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	7.5	96	0.40	Diesel	Tier 4 Final	0.00	0.01	0.12	0.00	-	0.00	0.00	-	0.00	0.00	15.8	0.00	0.00	15.9
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	7.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.10	0.00	-	0.00	0.00	-	0.00	0.00	12.8	0.00	0.00	12.9
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	2030	Cranes	Cranes	2	7.5	367	0.29	Diesel	Tier 4 Final	0.00	0.01	0.12	0.00	-	0.00	0.00	-	0.00	0.00	21.9	0.00	0.00	22.0
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	2030	Generator Sets	Generator Sets	2	7.5	14	0.74	Diesel	Fleet Avg	0.00	0.02	0.01	0.00	-	0.00	0.00	-	0.00	0.00	2.3	0.00	0.00	2.3
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	2030	Pumps	Pumps	2	7.5	11	0.74	Diesel	Fleet Avg	0.00	0.01	0.01	0.00	-	0.00	0.00	-	0.00	0.00	1.8	0.00	0.00	1.8
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	7.5	96	0.40	Diesel	Tier 4 Final	0.00	0.00	0.06	0.00	-	0.00	0.00	-	0.00	0.00	7.9	0.00	0.00	7.9
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	2030	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.02	0.44	0.47	0.00	-	0.00	0.00	-	0.00	0.00	81.6	0.00	0.00	81.9
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	2030	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.06	0.30	2.97	0.01	-	0.01	0.01	-	0.01	0.01	547.5	0.02	0.00	549.4
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	1	15.0	96	0.40	Diesel	Tier 4 Final	0.01	0.05	0.76	0.00	-	0.00	0.00	-	0.00	0.00	99.0	0.00	0.00	99.3
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	2030	Sweepers/Scrubbers	Sweepers/Scrubbers	1	15.0	36	0.46	Diesel	Fleet Avg	0.04	0.32	0.42	0.00	-	0.01	0.01	-	0.01	0.01	47.4	0.00	0.00	47.5
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.02	0.09	1.24	0.00	-	0.00	0.00	-	0.00	0.00	160.4	0.01	0.00	160.9
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Air Compressors	Air Compressors	1	15.0	37	0.48	Diesel	Fleet Avg	0.03	0.22	0.29	0.00	-	0.00	0.00	-	0.00	0.00	31.5	0.00	0.00	31.6
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Concrete/Industrial Saws	Concrete/Industrial Saws	2	15.0	33	0.73	Diesel	Fleet Avg	0.06	0.57	0.71	0.00	-	0.01	0.01	-	0.01	0.01	86.3	0.00	0.00	86.6
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Rough Terrain Forklifts	Rough Terrain Forklifts	1	15.0	96	0.40	Diesel	Tier 4 Final	0.01	0.03	0.49	0.00	-	0.00	0.00	-	0.00	0.00	63.3	0.00	0.00	63.6
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.37	Diesel	Tier 4 Final	0.02	0.50	0.67	0.00	-	0.00	0.00	-	0.00	0.00	86.7	0.00	0.00	87.0
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.01	0.06	0.79	0.00	-	0.00	0.00	-	0.00	0.00	102.7	0.00	0.00	103.1
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Bore/Drill Rigs	Bore/Drill Rigs	2	15.0	83	0.50	Diesel	Tier 4 Final	0.02	0.09	1.33	0.00	-	0.00	0.00	-	0.00	0.00	170.2	0.01	0.00	170.7
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.05	0.24	2.39	0.00	-	0.01	0.01	-	0.01	0.01	439.8	0.02	0.00	441.3
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.04	0.30	0.21	0.00	-	0.01	0.01	-	0.01	0.01	36.2	0.00	0.00	36.3
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.02	0.09	1.23	0.00	-	0.00	0.00	-	0.00	0.00	158.9	0.01	0.00	159.5
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.01	0.07	0.99	0.00	-	0.00	0.00	-	0.00	0.00	128.9	0.01	0.00	129.3
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	2029	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.02	0.43	0.46	0.00	-	0.00	0.00	-	0.00	0.00	80.1	0.00	0.00	80.4
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	2029	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.06	0.29	2.92	0.01	-	0.01	0.01	-	0.01	0.01	537.4	0.02	0.00	539.2
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	2029	Excavators	Excavators	2	15.0	36	0.38	Diesel	Fleet Avg	0.05	0.48	0.61	0.00	-	0.01	0.01	-	0.01	0.01	77.0	0.00	0.00	77.3
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.02	0.09	1.21	0.00	-	0.00	0.00	-	0.00	0.00	157.4	0.01	0.00	158.0
Metro E Line Stn_U-Alt5-TBM Pass Through-Maintenance	8/1/2030	9/30/2030	6	52	20	2030	Cranes	Cranes	1	15.0	367	0.29	Diesel	Tier 4 Final	0.00	0.02	0.24	0.00	-	0.00	0.00	-	0.00	0.00	43.8	0.00	0.00	44.0
Metro E Line Stn_U-Alt5-TBM Pass Through-Maintenance	8/1/2030	9/30/2030	6	52	20	2030	Generator Sets	Generator Sets	1	15.0	14	0.74	Diesel	Fleet Avg	0.00	0.04	0.03	0.00	-	0.00	0.00	-	0.00	0.00	4.6	0.00	0.00	4.6
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	2030	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.04	0.84	0.90	0.00	-	0.01	0.01	-	0.01	0.01	156.9	0.01	0.00	157.5
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	2030	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.11	0.57	5.72	0.01	-	0.02	0.02	-	0.02	0.02	1052.9	0.04	0.01	1056.5
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	2030	Excavators	Excavators	2	15.0	36	0.38	Diesel	Fleet Avg	0.09	0.93	1.18	0.00	-	0.02	0.02	-	0.02	0.02	150.8	0.01	0.00	151.4
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	2030	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.09	0.71	0.50	0.00	-	0.03	0.03	-	0.03	0.03	86.7	0.00	0.00	87.0
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	2030	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.37	Diesel	Tier 4 Final	0.05	1.49	2.01	0.00	-	0.01	0.01	-	0.01	0.01	260.6	0.01	0.00	261.5
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.03	0.17	2.38	0.00	-	0.01	0.01	-	0.01	0.01	308.4	0.01	0.00	309.5
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	2031	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.05	1.05	1.13	0.00	-	0.01	0.01	-	0.01	0.01	196.6	0.01	0.00	197.3
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	2031	Cement and Mortar Mixers	Cement and Mortar Mixers	1	15.0	10	0.56	Diesel	Fleet Avg	0.04	0.30	0.24	0.00	-	0.01	0.01	-	0.01	0.01	37.5	0.00	0.00	37.6
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	2031	Generator Sets	Generator Sets	2	15.0	14	0.74	Diesel	Fleet Avg	0.14	1.14	0.76	0.00	-	0.04	0.04	-	0.04	0.04	138.3	0.01	0.00	138.8
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	2031	Pumps	Pumps	1	15.0	11	0.74	Diesel	Fleet Avg	0.06	0.45	0.31	0.00	-	0.02	0.02	-	0.02	0.02	54.3	0.00	0.00	54.5
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	2031	Welders	Welders	2	15.0	46	0.45	Diesel	Fleet Avg	0.19	1.74	2.34	0.00	-	0.02	0.02	-	0.02	0.02	276.3	0.01	0.00	277.3
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	2034	Aerial Lifts	Aerial Lifts	1	15.0	46	0.31	Diesel	Fleet Avg	0.00	0.04	0.04	0.00	-	0.00	0.00	-	0.00	0.00	7.2	0.00	0.00	7.2
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	2034	Air Compressors	Air Compressors	1	15.0	37	0.48	Diesel	Fleet Avg	0.01	0.05	0.08	0.00	-	0.00	0.00	-	0.00	0.00	8.6	0.00	0.00	8.7
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	2034	Pavers	Pavers	1	15.0	81	0.42	Diesel	Tier 4 Final	0.00	0.01	0.12	0.00	-	0.00	0.00	-	0.00	0.00	15.3	0.00	0.00	15.3
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	2034	Paving Equipment	Paving Equipment	1	15.0	89	0.36	Diesel	Tier 4 Final	0.00	0.01	0.11	0.00	-	0.00	0.00	-	0.00	0.00	14.5	0.00	0.00	14.5
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	2034	Rollers	Rollers	1	15.0	36	0.38	Diesel	Fleet Avg	0.00	0.04	0.05	0.00	-	0.00	0.00	-	0.00	0.00	6.9	0.00	0.00	6.9
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	2028	Air Compressors	Air Compressors	1	15.0	37	0.48	Diesel	Fleet Avg	0.03	0.21	0.29	0.00	-	0.00	0.00	-	0.00	0.00	31.0	0.00	0.00	31.1
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	2028	Concrete/Industrial Saws	Concrete/Industrial Saws	2	15.0	33	0.73	Diesel	Fleet Avg	0.06	0.55	0.70	0.00	-	0.01	0.01	-	0.01	0.01	85.1	0.00	0.00	85.4
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	2028	Rough Terrain Forklifts	Rough Terrain Forklifts	1	15.0	96	0.40	Diesel	Tier 4 Final	0.01	0.03	0.48	0.00	-	0.00	0.00	-	0.00	0.00	62.4	0.00	0.00	62.6
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	2028	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.37	Diesel	Tier 4 Final	0.02	0.49	0.66	0.00	-	0.00	0.00	-	0.00	0.00	85.4	0.00	0.00	85.7
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.01	0.05	0.78	0.00	-	0.00	0.00	-	0.00	0.00	101.2	0.00	0.00	101.6
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	2029	Bore/Drill Rigs	Bore/Drill Rigs	2	15.0	83	0.50	Diesel	Tier 4 Final	0.02	0.09	1.34	0.00	-	0.00	0.00	-	0.00	0.00	171.4	0.01	0.00	171.9
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	2029	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.05	0.24	2.41	0.00	-	0.01	0.01	-	0.01	0.01	443.1	0.02	0.00	444.6
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	2029	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.04	0.30	0.21	0.00	-	0.01	0.01	-	0.01	0.01	36.5	0.00	0.00	36.6
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.02	0.09	1.24	0.00	-	0.00	0.00	-	0.00	0.00	160.2	0.01	0.00	160.7
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.01	0.07	1.00	0.00	-	0.00	0.00	-	0.00	0.00	129.8	0.01	0.00	130.2

Sepulveda Transit Corridor Project - ALTERNATIVE 5

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Emission Factor (g/bhp-hr)[3] ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	2029	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.15	2.86	3.07	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	2029	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	2029	Excavators	Excavators	2	15.0	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Santa Monica Stn_U-Alt5-TBM Pass Through-Maintenance	3/1/2031	4/30/2031	6	52	20	2031	Cranes	Cranes	1	15.0	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Santa Monica Stn_U-Alt5-TBM Pass Through-Maintenance	3/1/2031	4/30/2031	6	52	20	2031	Generator Sets	Generator Sets	1	15.0	14	0.74	Diesel	Fleet Avg	0.53	4.26	2.84	0.01	-	0.17	0.17	-	0.15	0.15	568.31	0.02	0.00
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	2030	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.15	2.86	3.07	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	2030	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	2030	Excavators	Excavators	2	15.0	36	0.38	Diesel	Fleet Avg	0.33	3.30	4.19	0.01	-	0.07	0.07	-	0.06	0.06	588.07	0.02	0.00
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	2030	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.56	4.25	2.97	0.01	-	0.17	0.17	-	0.15	0.15	568.35	0.02	0.00
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	2030	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.37	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.01	0.02	0.00
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	2032	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.15	2.85	3.06	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	2032	Cement and Mortar Mixers	Cement and Mortar Mixers	1	15.0	10	0.56	Diesel	Fleet Avg	0.55	4.19	3.25	0.01	-	0.16	0.16	-	0.15	0.15	570.11	0.02	0.00
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	2032	Generator Sets	Generator Sets	2	15.0	14	0.74	Diesel	Fleet Avg	0.53	4.26	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	2032	Pumps	Pumps	1	15.0	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.33	0.02	0.00
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	2032	Welders	Welders	2	15.0	46	0.45	Diesel	Fleet Avg	0.35	3.21	4.36	0.01	-	0.03	0.03	-	0.03	0.03	568.31	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	2029	Air Compressors	Air Compressors	1	15.0	37	0.48	Diesel	Fleet Avg	0.44	3.38	4.73	0.01	-	0.05	0.05	-	0.05	0.05	568.31	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	2029	Concrete/Industrial Saws	Concrete/Industrial Saws	2	15.0	33	0.73	Diesel	Fleet Avg	0.35	3.29	4.26	0.01	-	0.05	0.05	-	0.04	0.04	574.49	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	1	15.0	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	2029	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.37	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.01	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	2030	Bore/Drill Rigs	Bore/Drill Rigs	2	15.0	83	0.50	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.33	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	2030	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	2030	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.56	4.25	2.97	0.01	-	0.17	0.17	-	0.15	0.15	568.35	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	2030	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.15	2.86	3.07	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	2030	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	2030	Excavators	Excavators	2	15.0	36	0.38	Diesel	Fleet Avg	0.33	3.30	4.19	0.01	-	0.07	0.07	-	0.06	0.06	588.07	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt5-TBM Pass Through-Maintenance	10/1/2031	11/30/2031	6	52	20	2031	Cranes	Cranes	1	15.0	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt5-TBM Pass Through-Maintenance	10/1/2031	11/30/2031	6	52	20	2031	Generator Sets	Generator Sets	1	15.0	14	0.74	Diesel	Fleet Avg	0.53	4.26	2.84	0.01	-	0.17	0.17	-	0.15	0.15	568.31	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	2031	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.15	2.85	3.07	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	2031	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	2031	Excavators	Excavators	2	15.0	36	0.38	Diesel	Fleet Avg	0.31	3.28	4.17	0.01	-	0.06	0.06	-	0.05	0.05	588.07	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	2031	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.56	4.24	2.97	0.01	-	0.17	0.17	-	0.15	0.15	568.32	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	2031	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.37	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.02	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	2031	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	2033	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.14	2.85	3.06	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	2033	Cement and Mortar Mixers	Cement and Mortar Mixers	1	15.0	10	0.56	Diesel	Fleet Avg	0.55	4.19	3.25	0.01	-	0.16	0.16	-	0.15	0.15	570.13	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	2033	Generator Sets	Generator Sets	2	15.0	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.31	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	2033	Pumps	Pumps	1	15.0	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	2033	Welders	Welders	2	15.0	46	0.45	Diesel	Fleet Avg	0.34	3.19	4.35	0.01	-	0.03	0.03	-	0.03	0.03	568.31	0.02	0.00
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	2028	Air Compressors	Air Compressors	1	15.0	37	0.48	Diesel	Fleet Avg	0.46	3.44	4.76	0.01	-	0.07	0.07	-	0.06	0.06	568.34	0.02	0.00
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	2028	Concrete/Industrial Saws	Concrete/Industrial Saws	2	15.0	33	0.73	Diesel	Fleet Avg	0.37	3.34	4.27	0.01	-	0.06	0.06	-	0.05	0.05	574.38	0.02	0.00
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	2028	Rough Terrain Forklifts	Rough Terrain Forklifts	1	15.0	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.60	0.02	0.00
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	2028	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.37	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.61	0.02	0.00
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.57	0.02	0.00
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	2029	Bore/Drill Rigs	Bore/Drill Rigs	2	15.0	83	0.50	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.33	0.02	0.00
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	2029	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	2029	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.56	4.26	2.98	0.01	-	0.17	0.17	-	0.15	0.15	568.32	0.02	0.00
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	2029	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.15	2.86	3.07	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	2029	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	2029	Excavators	Excavators	2	15.0	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	2031	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.15	2.85	3.07	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	2031	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	2031	Excavators	Excavators	2	15.0	36	0.38	Diesel	Fleet Avg	0.31	3.28	4.17	0.01	-	0.06	0.06	-	0.05	0.05	588.07	0.02	0.00
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	2031	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.56	4.24	2.97	0.01	-	0.17	0.17	-	0.15	0.15	568.32	0.02	0.00
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	2031	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.37	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.02	0.02	0.00
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	2031	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	2033	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.14	2.85	3.06	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	2033	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	2033	Excavators	Excavators	2	15.0	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	2033	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	2033	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.37	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.01	0.02	0.00
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	2033	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	2033	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.14	2.85	3.06	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	2033	Cement and Mortar Mixers	Cement and Mortar Mixers	1	15.0	10	0.56	Diesel	Fleet Avg	0.55	4.19	3.25	0.01	-	0.16	0.16	-	0.15	0.15	570.13	0.02	0.00
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	2033	Generator Sets	Generator Sets	2	15.0	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.31	0.02	0.00
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	2033	Pumps	Pumps	1	15.0	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	2033	Welders	Welders	2	15.0	46	0.45	Diesel	Fleet Avg	0.34	3.19	4.35	0.01	-	0.03	0.03	-	0.03	0.03	568.31	0.02	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 5

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Daily Emissions (lb/day) ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	2029	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.14	2.70	2.90	0.01	-	0.02	0.02	-	0.02	0.02	553.5	0.02	0.00
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	2029	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.35	1.83	18.30	0.03	-	0.07	0.07	-	0.07	0.07	3713.9	0.15	0.03
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	2029	Excavators	Excavators	2	15.0	36	0.38	Diesel	Fleet Avg	0.32	3.00	3.82	0.00	-	0.07	0.07	-	0.06	0.06	532.1	0.02	0.00
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.0	0.04	0.01
Santa Monica Stn_U-Alt5-TBM Pass Through-Maintenance	3/1/2031	4/30/2031	6	52	20	2031	Cranes	Cranes	1	15.0	367	0.29	Diesel	Tier 4 Final	0.18	0.92	9.15	0.02	-	0.04	0.04	-	0.04	0.04	1857.0	0.08	0.02
Santa Monica Stn_U-Alt5-TBM Pass Through-Maintenance	3/1/2031	4/30/2031	6	52	20	2031	Generator Sets	Generator Sets	1	15.0	14	0.74	Diesel	Fleet Avg	0.18	1.46	0.97	0.00	-	0.06	0.06	-	0.05	0.05	194.7	0.01	0.00
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	2030	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.14	2.70	2.89	0.01	-	0.02	0.02	-	0.02	0.02	553.5	0.02	0.00
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	2030	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.35	1.83	18.30	0.03	-	0.07	0.07	-	0.07	0.07	3713.9	0.15	0.03
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	2030	Excavators	Excavators	2	15.0	36	0.38	Diesel	Fleet Avg	0.30	2.98	3.79	0.00	-	0.06	0.06	-	0.06	0.06	532.1	0.02	0.00
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	2030	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.30	2.29	1.60	0.00	-	0.09	0.09	-	0.08	0.08	306.0	0.01	0.00
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	2030	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.37	Diesel	Tier 4 Final	0.16	4.76	6.43	0.01	-	0.02	0.02	-	0.02	0.02	919.1	0.04	0.01
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.0	0.04	0.01
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	2032	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.14	2.69	2.89	0.01	-	0.02	0.02	-	0.02	0.02	553.5	0.02	0.00
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	2032	Cement and Mortar Mixers	Cement and Mortar Mixers	1	15.0	10	0.56	Diesel	Fleet Avg	0.10	0.78	0.60	0.00	-	0.03	0.03	-	0.03	0.03	105.6	0.00	0.00
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	2032	Generator Sets	Generator Sets	2	15.0	14	0.74	Diesel	Fleet Avg	0.36	2.92	1.95	0.01	-	0.11	0.11	-	0.10	0.10	389.4	0.02	0.00
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	2032	Pumps	Pumps	1	15.0	11	0.74	Diesel	Fleet Avg	0.15	1.14	0.80	0.00	-	0.04	0.04	-	0.04	0.04	153.0	0.01	0.00
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	2032	Welders	Welders	2	15.0	46	0.45	Diesel	Fleet Avg	0.48	4.40	5.97	0.01	-	0.05	0.05	-	0.04	0.04	778.1	0.03	0.01
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	2029	Air Compressors	Air Compressors	1	15.0	37	0.48	Diesel	Fleet Avg	0.26	1.99	2.78	0.00	-	0.03	0.03	-	0.03	0.03	333.8	0.01	0.00
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	2029	Concrete/Industrial Saws	Concrete/Industrial Saws	2	15.0	33	0.73	Diesel	Fleet Avg	0.57	5.25	6.78	0.01	-	0.08	0.08	-	0.07	0.07	915.3	0.04	0.01
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	1	15.0	96	0.40	Diesel	Tier 4 Final	0.06	0.33	4.70	0.01	-	0.01	0.01	-	0.01	0.01	671.4	0.03	0.01
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	2029	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.37	Diesel	Tier 4 Final	0.16	4.76	6.43	0.01	-	0.02	0.02	-	0.02	0.02	919.1	0.04	0.01
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.0	0.04	0.01
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	2030	Bore/Drill Rigs	Bore/Drill Rigs	2	15.0	83	0.50	Diesel	Tier 4 Final	0.14	0.71	10.16	0.01	-	0.03	0.03	-	0.03	0.03	1436.4	0.06	0.01
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	2030	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.35	1.83	18.30	0.03	-	0.07	0.07	-	0.07	0.07	3713.9	0.15	0.03
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	2030	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.30	2.29	1.60	0.00	-	0.09	0.09	-	0.08	0.08	306.0	0.01	0.00
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.13	0.66	9.40	0.01	-	0.03	0.03	-	0.03	0.03	1342.8	0.05	0.01
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.0	0.04	0.01
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	2030	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.14	2.70	2.89	0.01	-	0.02	0.02	-	0.02	0.02	553.5	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	2030	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.35	1.83	18.30	0.03	-	0.07	0.07	-	0.07	0.07	3713.9	0.15	0.03
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	2030	Excavators	Excavators	2	15.0	36	0.38	Diesel	Fleet Avg	0.30	2.98	3.79	0.00	-	0.06	0.06	-	0.06	0.06	532.1	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.0	0.04	0.01
D Line Wilshire-Westwood Stn_U-Alt5-TBM Pass Through-Maintenance	10/1/2031	11/30/2031	6	52	20	2031	Cranes	Cranes	1	15.0	367	0.29	Diesel	Tier 4 Final	0.18	0.92	9.15	0.02	-	0.04	0.04	-	0.04	0.04	1857.0	0.08	0.02
D Line Wilshire-Westwood Stn_U-Alt5-TBM Pass Through-Maintenance	10/1/2031	11/30/2031	6	52	20	2031	Generator Sets	Generator Sets	1	15.0	14	0.74	Diesel	Fleet Avg	0.18	1.46	0.97	0.00	-	0.06	0.06	-	0.05	0.05	194.7	0.01	0.00
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	2031	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.14	2.69	2.89	0.01	-	0.02	0.02	-	0.02	0.02	553.5	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	2031	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.35	1.83	18.30	0.03	-	0.07	0.07	-	0.07	0.07	3713.9	0.15	0.03
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	2031	Excavators	Excavators	2	15.0	36	0.38	Diesel	Fleet Avg	0.28	2.97	3.77	0.00	-	0.05	0.05	-	0.05	0.05	532.1	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	2031	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.30	2.28	1.60	0.00	-	0.09	0.09	-	0.08	0.08	306.0	0.01	0.00
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	2031	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.37	Diesel	Tier 4 Final	0.16	4.76	6.43	0.01	-	0.02	0.02	-	0.02	0.02	919.2	0.04	0.01
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	2031	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.0	0.04	0.01
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	2033	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.14	2.69	2.89	0.01	-	0.02	0.02	-	0.01	0.01	553.5	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	2033	Cement and Mortar Mixers	Cement and Mortar Mixers	1	15.0	10	0.56	Diesel	Fleet Avg	0.10	0.78	0.60	0.00	-	0.03	0.03	-	0.03	0.03	105.6	0.00	0.00
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	2033	Generator Sets	Generator Sets	2	15.0	14	0.74	Diesel	Fleet Avg	0.36	2.91	1.95	0.01	-	0.11	0.11	-	0.10	0.10	389.4	0.02	0.00
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	2033	Pumps	Pumps	1	15.0	11	0.74	Diesel	Fleet Avg	0.15	1.14	0.80	0.00	-	0.04	0.04	-	0.04	0.04	153.0	0.01	0.00
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	2033	Welders	Welders	2	15.0	46	0.45	Diesel	Fleet Avg	0.47	4.36	5.96	0.01	-	0.04	0.04	-	0.04	0.04	778.1	0.03	0.01
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	2028	Air Compressors	Air Compressors	1	15.0	37	0.48	Diesel	Fleet Avg	0.27	2.02	2.80	0.00	-	0.04	0.04	-	0.04	0.04	333.8	0.01	0.00
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	2028	Concrete/Industrial Saws	Concrete/Industrial Saws	2	15.0	33	0.73	Diesel	Fleet Avg	0.59	5.33	6.81	0.01	-	0.09	0.09	-	0.08	0.08	915.1	0.04	0.01
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	2028	Rough Terrain Forklifts	Rough Terrain Forklifts	1	15.0	96	0.40	Diesel	Tier 4 Final	0.06	0.33	4.70	0.01	-	0.01	0.01	-	0.01	0.01	671.3	0.03	0.01
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	2028	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.37	Diesel	Tier 4 Final	0.16	4.76	6.43	0.01	-	0.02	0.02	-	0.02	0.02	918.4	0.04	0.01
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.6	0.04	0.01
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	2029	Bore/Drill Rigs	Bore/Drill Rigs	2	15.0	83	0.50	Diesel	Tier 4 Final	0.14	0.71	10.16	0.01	-	0.03	0.03	-	0.03	0.03	1436.4	0.06	0.01
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	2029	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.35	1.83	18.30	0.03	-	0.07	0.07	-	0.07	0.07	3713.9	0.15	0.03
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	2029	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.30	2.29	1.60	0.00	-	0.09	0.09	-	0.08	0.08	306.0	0.01	0.00
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.13	0.66	9.40	0.01	-	0.03	0.03	-	0.03	0.03	1342.8	0.05	0.01
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.0	0.04	0.01
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	2029	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.14	2.70	2.90	0.01	-	0.02	0.02	-	0.02	0.02	553.5	0.02	0.00
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	2029	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.35	1.83	18.30	0.03	-	0.07	0.07	-	0.07	0.07	3713.9	0.15	0.03
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	2029	Excavators	Excavators	2	15.0	36	0.38	Diesel	Fleet Avg	0.32	3.00	3.82	0.00	-	0.07	0.07	-	0.06	0.06	532.1	0.02	0.00
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.0	0.04	0.01
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	2031	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.14	2.69	2.89	0.01	-	0.02	0.02	-	0.02	0.02	553.5	0.02	0.00
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	2031	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.35	1.83	18.30	0.03	-	0.07	0.07	-	0.07	0.07	3713.9	0.15	0.03
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	2031	Excavators	Excavators	2	15.0	36	0.38	Diesel	Fleet Avg	0.28	2.97	3.77	0.00	-	0.05	0.05	-	0.05	0.05	532.1	0.02	0.00
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	2031	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.30	2.28	1.60	0.00	-	0.09	0.09	-	0.08	0.08	306.0	0.01	0.00
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	2031	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.37	Diesel	Tier 4 Final	0.16	4.76	6.43	0.01	-	0.02	0.02	-	0.02	0.02	919.2	0.04	0.01
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	2031	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.0	0.04	0.01
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	2033	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.14	2.69	2.89	0.01	-	0.02	0.02	-	0.01	0.01	553.5	0.02	0.00
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	2033	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.35	1.83	18.30	0.03	-	0.07	0.07	-	0.07	0.07	3713.9	0.15	0.03
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	2033	Excavators	Excavators	2	15.0	36	0.38	Diesel	Fleet Avg	0.25	2.95	3.74	0.00	-	0.04	0.04	-	0.04	0.04	532.1	0.02	0.00
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	2033	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.30	2.28	1.60	0.00	-	0.09	0.09	-	0.08	0.08	306.0	0.01	0.00
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	2033	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.37	Diesel	Tier 4 Final	0.16	4.76	6.43	0.01	-	0.02	0.02	-	0.02	0.02	919.1	0.04	0.01
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	2033	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.0	0.04	0.01
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	2033	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.14	2.69	2.89	0.01	-	0.02	0.02	-	0.01	0.01	553.5	0.02	0.00
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	2033	Cement and Mortar Mixers	Cement and Mortar Mixers	1	15.0	10	0.56	Diesel	Fleet Avg	0.10	0.78	0.60	0.00	-	0.03	0.03	-	0.03	0.03	105.6	0.00	0.00
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	2033	Generator Sets	Generator Sets	2	15.0	14	0.74	Diesel	Fleet Avg	0.36	2.91	1.95	0.01	-	0.11	0.11	-	0.10	0.10	389.4	0.02	0.00
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	2033	Pumps	Pumps	1	15.0	11	0.74	Diesel	Fleet Avg	0.15	1.14	0.80	0.00	-	0.04	0.04	-	0.04	0.04	153.0	0.01	0.00
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	2033	Welders	Welders	2	15.0	46	0.45	Diesel	Fleet Avg	0.47	4.36	5.96	0.01	-	0.04	0.04	-	0.04	0.04	778.1	0.03	0.01

Sepulveda Transit Corridor Project - ALTERNATIVE 5

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Total Emissions (tons) ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	Total Emissions (metric tons) CO_2	CH_4	N_2O	CO_2e
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	2029	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.02	0.42	0.45	0.00	-	0.00	0.00	-	0.00	0.00	78.1	0.00	0.00	78.4
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	2029	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.05	0.28	2.85	0.01	-	0.01	0.01	-	0.01	0.01	523.9	0.02	0.00	525.7
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	2029	Excavators	Excavators	2	15.0	36	0.38	Diesel	Fleet Avg	0.05	0.47	0.59	0.00	-	0.01	0.01	-	0.01	0.01	75.1	0.00	0.00	75.3
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.02	0.08	1.18	0.00	-	0.00	0.00	-	0.00	0.00	153.5	0.01	0.00	154.0
Santa Monica Stn_U-Alt5-TBM Pass Through-Maintenance	3/1/2031	4/30/2031	6	52	20	2031	Cranes	Cranes	1	15.0	367	0.29	Diesel	Tier 4 Final	0.00	0.02	0.24	0.00	-	0.00	0.00	-	0.00	0.00	43.8	0.00	0.00	44.0
Santa Monica Stn_U-Alt5-TBM Pass Through-Maintenance	3/1/2031	4/30/2031	6	52	20	2031	Generator Sets	Generator Sets	1	15.0	14	0.74	Diesel	Fleet Avg	0.00	0.04	0.03	0.00	-	0.00	0.00	-	0.00	0.00	4.6	0.00	0.00	4.6
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	2030	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.04	0.84	0.90	0.00	-	0.01	0.01	-	0.01	0.01	155.7	0.01	0.00	156.2
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	2030	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.11	0.57	5.67	0.01	-	0.02	0.02	-	0.02	0.02	1044.5	0.04	0.01	1048.0
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	2030	Excavators	Excavators	2	15.0	36	0.38	Diesel	Fleet Avg	0.09	0.92	1.18	0.00	-	0.02	0.02	-	0.02	0.02	149.6	0.01	0.00	150.1
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	2030	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.09	0.71	0.50	0.00	-	0.03	0.03	-	0.03	0.03	86.1	0.00	0.00	86.3
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	2030	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.37	Diesel	Tier 4 Final	0.05	1.48	1.99	0.00	-	0.01	0.01	-	0.01	0.01	258.5	0.01	0.00	259.4
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.03	0.17	2.36	0.00	-	0.01	0.01	-	0.01	0.01	306.0	0.01	0.00	307.0
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	2032	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.05	1.04	1.12	0.00	-	0.01	0.01	-	0.01	0.01	194.6	0.01	0.00	195.3
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	2032	Cement and Mortar Mixers	Cement and Mortar Mixers	1	15.0	10	0.56	Diesel	Fleet Avg	0.04	0.30	0.23	0.00	-	0.01	0.01	-	0.01	0.01	37.1	0.00	0.00	37.2
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	2032	Generator Sets	Generator Sets	2	15.0	14	0.74	Diesel	Fleet Avg	0.14	1.13	0.75	0.00	-	0.04	0.04	-	0.04	0.04	136.9	0.01	0.00	137.4
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	2032	Pumps	Pumps	1	15.0	11	0.74	Diesel	Fleet Avg	0.06	0.44	0.31	0.00	-	0.02	0.02	-	0.02	0.02	53.8	0.00	0.00	54.0
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	2032	Welders	Welders	2	15.0	46	0.45	Diesel	Fleet Avg	0.19	1.70	2.31	0.00	-	0.02	0.02	-	0.02	0.02	273.5	0.01	0.00	274.5
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	2029	Air Compressors	Air Compressors	1	15.0	37	0.48	Diesel	Fleet Avg	0.03	0.21	0.29	0.00	-	0.00	0.00	-	0.00	0.00	31.8	0.00	0.00	31.9
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	2029	Concrete/Industrial Saws	Concrete/Industrial Saws	2	15.0	33	0.73	Diesel	Fleet Avg	0.06	0.55	0.71	0.00	-	0.01	0.01	-	0.01	0.01	87.2	0.00	0.00	87.5
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	1	15.0	96	0.40	Diesel	Tier 4 Final	0.01	0.03	0.49	0.00	-	0.00	0.00	-	0.00	0.00	64.0	0.00	0.00	64.2
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	2029	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.37	Diesel	Tier 4 Final	0.02	0.50	0.68	0.00	-	0.00	0.00	-	0.00	0.00	87.6	0.00	0.00	87.9
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.01	0.06	0.80	0.00	-	0.00	0.00	-	0.00	0.00	103.6	0.00	0.00	104.0
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	2030	Bore/Drill Rigs	Bore/Drill Rigs	2	15.0	83	0.50	Diesel	Tier 4 Final	0.02	0.09	1.33	0.00	-	0.00	0.00	-	0.00	0.00	170.1	0.01	0.00	170.6
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	2030	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.05	0.24	2.39	0.00	-	0.01	0.01	-	0.01	0.01	439.7	0.02	0.00	441.2
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	2030	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.04	0.30	0.21	0.00	-	0.01	0.01	-	0.01	0.01	36.2	0.00	0.00	36.3
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.02	0.09	1.23	0.00	-	0.00	0.00	-	0.00	0.00	159.0	0.01	0.00	159.5
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.01	0.07	0.99	0.00	-	0.00	0.00	-	0.00	0.00	128.8	0.01	0.00	129.2
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	2030	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.02	0.43	0.46	0.00	-	0.00	0.00	-	0.00	0.00	80.1	0.00	0.00	80.4
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	2030	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.06	0.29	2.92	0.01	-	0.01	0.01	-	0.01	0.01	537.4	0.02	0.00	539.2
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	2030	Excavators	Excavators	2	15.0	36	0.38	Diesel	Fleet Avg	0.05	0.48	0.60	0.00	-	0.01	0.01	-	0.01	0.01	77.0	0.00	0.00	77.3
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.02	0.09	1.21	0.00	-	0.00	0.00	-	0.00	0.00	157.4	0.01	0.00	158.0
D Line Wilshire-Westwood Stn_U-Alt5-TBM Pass Through-Maintenance	10/1/2031	11/30/2031	6	52	20	2031	Cranes	Cranes	1	15.0	367	0.29	Diesel	Tier 4 Final	0.00	0.02	0.24	0.00	-	0.00	0.00	-	0.00	0.00	43.8	0.00	0.00	44.0
D Line Wilshire-Westwood Stn_U-Alt5-TBM Pass Through-Maintenance	10/1/2031	11/30/2031	6	52	20	2031	Generator Sets	Generator Sets	1	15.0	14	0.74	Diesel	Fleet Avg	0.00	0.04	0.03	0.00	-	0.00	0.00	-	0.00	0.00	4.6	0.00	0.00	4.6
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	2031	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.04	0.73	0.79	0.00	-	0.00	0.00	-	0.00	0.00	136.6	0.01	0.00	137.1
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	2031	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.10	0.50	4.98	0.01	-	0.02	0.02	-	0.02	0.02	916.4	0.04	0.01	919.6
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	2031	Excavators	Excavators	2	15.0	36	0.38	Diesel	Fleet Avg	0.08	0.81	1.03	0.00	-	0.01	0.01	-	0.01	0.01	131.3	0.01	0.00	131.7
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	2031	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.08	0.62	0.44	0.00	-	0.02	0.02	-	0.02	0.02	75.5	0.00	0.00	75.8
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	2031	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.37	Diesel	Tier 4 Final	0.04	1.29	1.75	0.00	-	0.00	0.00	-	0.00	0.00	226.8	0.01	0.00	227.6
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	2031	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.07	0.00	-	0.01	0.01	-	0.01	0.01	268.5	0.01	0.00	269.4
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	2033	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.05	1.04	1.12	0.00	-	0.01	0.01	-	0.01	0.01	194.6	0.01	0.00	195.3
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	2033	Cement and Mortar Mixers	Cement and Mortar Mixers	1	15.0	10	0.56	Diesel	Fleet Avg	0.04	0.30	0.23	0.00	-	0.01	0.01	-	0.01	0.01	37.1	0.00	0.00	37.2
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	2033	Generator Sets	Generator Sets	2	15.0	14	0.74	Diesel	Fleet Avg	0.14	1.13	0.75	0.00	-	0.04	0.04	-	0.04	0.04	136.9	0.01	0.00	137.4
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	2033	Pumps	Pumps	1	15.0	11	0.74	Diesel	Fleet Avg	0.06	0.44	0.31	0.00	-	0.02	0.02	-	0.02	0.02	53.8	0.00	0.00	54.0
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	2033	Welders	Welders	2	15.0	46	0.45	Diesel	Fleet Avg	0.18	1.69	2.31	0.00	-	0.02	0.02	-	0.01	0.01	273.5	0.01	0.00	274.5
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	2028	Air Compressors	Air Compressors	1	15.0	37	0.48	Diesel	Fleet Avg	0.03	0.21	0.29	0.00	-	0.00	0.00	-	0.00	0.00	31.5	0.00	0.00	31.6
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	2028	Concrete/Industrial Saws	Concrete/Industrial Saws	2	15.0	33	0.73	Diesel	Fleet Avg	0.06	0.55	0.71	0.00	-	0.01	0.01	-	0.01	0.01	86.3	0.00	0.00	86.6
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	2028	Rough Terrain Forklifts	Rough Terrain Forklifts	1	15.0	96	0.40	Diesel	Tier 4 Final	0.01	0.03	0.49	0.00	-	0.00	0.00	-	0.00	0.00	63.3	0.00	0.00	63.5
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	2028	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.37	Diesel	Tier 4 Final	0.02	0.50	0.67	0.00	-	0.00	0.00	-	0.00	0.00	86.7	0.00	0.00	87.0
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.01	0.06	0.79	0.00	-	0.00	0.00	-	0.00	0.00	102.7	0.00	0.00	103.1
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	2029	Bore/Drill Rigs	Bore/Drill Rigs	2	15.0	83	0.50	Diesel	Tier 4 Final	0.02	0.13	1.85	0.00	-	0.00	0.00	-	0.00	0.00	237.2	0.01	0.00	238.0
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	2029	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.06	0.33	3.33	0.01	-	0.01	0.01	-	0.01	0.01	613.2	0.02	0.00	615.3
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	2029	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.05	0.42	0.29	0.00	-	0.02	0.02	-	0.02	0.02	50.5	0.00	0.00	50.7
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.02	0.12	1.71	0.00	-	0.00	0.00	-	0.00	0.00	221.7	0.01	0.00	222.5
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.02	0.10	1.38	0.00	-	0.00	0.00	-	0.00	0.00	179.6	0.01	0.00	180.2
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	2029	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.03	0.54	0.58	0.00	-	0.00	0.00	-	0.00	0.00	100.2	0.00	0.00	100.5
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	2029	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.07	0.37	3.65	0.01	-	0.01	0.01	-	0.01	0.01	672.2	0.03	0.01	674.5
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	2029	Excavators	Excavators	2	15.0	36	0.38	Diesel	Fleet Avg	0.06	0.60	0.76	0.00	-	0.01	0.01	-	0.01	0.01	96.3	0.00	0.00	96.6
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.02	0.11	1.52	0.00	-	0.00	0.00	-	0.00	0.00	196.9	0.01	0.00	197.6
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	2031	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.03	0.56	0.60	0.00	-	0.00	0.00	-	0.00	0.00	103.7	0.00	0.00	104.1
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	2031	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.07	0.38	3.78	0.01	-	0.01	0.01	-	0.01	0.01	695.7	0.03	0.01	698.1
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	2031	Excavators	Excavators	2	15.0	36	0.38	Diesel	Fleet Avg	0.06	0.61	0.78	0.00	-	0.01	0.01	-	0.01	0.01	99.7	0.00	0.00	100.0
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	2031	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.06	0.47	0.33	0.00	-	0.02	0.02	-	0.02	0.02	57.3	0.00	0.00	57.5
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	2031	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.37	Diesel	Tier 4 Final	0.03	0.98	1.33	0.00	-	0.00	0.00	-	0.00	0.00	172.2	0.01	0.00	172.8
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	2031	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.02	0.11	1.57	0.00	-	0.00	0.00	-	0.00	0.00	203.8	0.01	0.00	204.5
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	2033	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.02	0.49	0.52	0.00	-	0.00	0.00	-	0.00	0.00	90.6	0.00	0.00	90.9
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	2033	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.06	0.33	3.30	0.01	-	0.01	0.01	-	0.01	0.01	608.1	0.02	0.00	610.2
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	2033	Excavators	Excavators	2	15.0	36	0.38	Diesel	Fleet Avg	0.05	0.53	0.68	0.00	-	0.01	0.01	-	0.01	0.01	87.1	0.00	0.00	87.4
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	2033	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.05	0.41	0.29	0.00	-	0.02	0.02	-	0.01	0.01	50.1	0.00	0.00	50.3
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	2033	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.37	Diesel	Tier 4 Final	0.03	0.86	1.16	0.00	-	0.00	0.00	-	0.00	0.00	150.5	0.01	0.00	151.0
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	2033	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.02	0.10	1.37	0.00	-	0.00	0.00	-	0.00	0.00	178.1	0.01	0.00	178.8
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	2033	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.05	1.04	1.12	0.00	-	0.01	0.01	-	0.01	0.01	194.6	0.01	0.00	195.3
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	2033	Cement and Mortar Mixers	Cement and Mortar Mixers	1	15.0	10	0.56	Diesel	Fleet Avg	0.04	0.30	0.23	0.00	-	0.01	0.01	-	0.01	0.01	37.1	0.00	0.00	37.2
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	2033	Generator Sets	Generator Sets	2	15.0	14	0.74	Diesel	Fleet Avg	0.14	1.13	0.75	0.00	-	0.04	0.04	-	0.04	0.04	136.9	0.01	0.00	137.4
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	2033	Pumps	Pumps	1	15.0	11	0.74	Diesel	Fleet Avg	0.06	0.44	0.31	0.00	-	0.02	0.02	-	0.02	0.02	53.8	0.00	0.00	54.0
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	2033	Welders	Welders	2	15.0	46	0.45	Diesel	Fleet Avg	0.18	1.69	2.31	0.00	-	0.02	0.02	-	0.01	0.01	273.5	0.01	0.00	274.5

Sepulveda Transit Corridor Project - ALTERNATIVE 5

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Emission Factor (g/bhp-hr)[3] ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	2026	Air Compressors	Air Compressors	1	15.0	37	0.48	Diesel	Fleet Avg	0.51	3.65	4.82	0.01	-	0.10	0.10	-	0.09	0.09	568.29	0.02	0.00
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	2026	Concrete/Industrial Saws	Concrete/Industrial Saws	2	15.0	33	0.73	Diesel	Fleet Avg	0.41	3.53	4.32	0.01	-	0.09	0.09	-	0.08	0.08	574.36	0.02	0.00
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	2026	Rough Terrain Forklifts	Rough Terrain Forklifts	1	15.0	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.89	0.02	0.00
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	2026	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.37	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.62	0.02	0.00
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	2026	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.71	0.02	0.00
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	2026	Bore/Drill Rigs	Bore/Drill Rigs	2	15.0	83	0.50	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	525.08	0.02	0.00
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	2026	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.46	0.02	0.00
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	2026	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.57	4.31	2.99	0.01	-	0.18	0.18	-	0.16	0.16	568.31	0.02	0.00
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	2026	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.89	0.02	0.00
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	2026	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.71	0.02	0.00
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	2027	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.15	2.87	3.07	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	2027	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.45	0.02	0.00
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	2027	Excavators	Excavators	2	15.0	36	0.38	Diesel	Fleet Avg	0.38	3.37	4.22	0.01	-	0.09	0.09	-	0.08	0.08	587.39	0.02	0.00
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	2027	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.62	0.02	0.00
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	2028	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.15	2.87	3.08	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	2028	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.75	0.02	0.00
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	2028	Excavators	Excavators	2	15.0	36	0.38	Diesel	Fleet Avg	0.37	3.34	4.22	0.01	-	0.08	0.08	-	0.07	0.07	587.54	0.02	0.00
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	2028	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.56	4.27	2.98	0.01	-	0.17	0.17	-	0.16	0.16	568.34	0.02	0.00
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	2028	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.37	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.61	0.02	0.00
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.57	0.02	0.00
Ventura Blvd Stn_U-Alt5-Mobilize/Launch Reach 2 TBM	10/1/2028	1/30/2029	7	122	20	2028	Cranes	Cranes	-	15.0	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.75	0.02	0.00
Ventura Blvd Stn_U-Alt5-Retrieve/Demob Reach 3 TBM	2/19/2032	5/18/2032	7	90	20	2032	Cranes	Cranes	-	15.0	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	2031	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.15	2.85	3.07	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	2031	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	2031	Excavators	Excavators	2	15.0	36	0.38	Diesel	Fleet Avg	0.31	3.28	4.17	0.01	-	0.06	0.06	-	0.05	0.05	588.07	0.02	0.00
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	2031	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.56	4.24	2.97	0.01	-	0.17	0.17	-	0.15	0.15	568.32	0.02	0.00
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	2031	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.37	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.02	0.02	0.00
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	2031	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	2033	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.14	2.85	3.06	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	2033	Cement and Mortar Mixers	Cement and Mortar Mixers	1	15.0	10	0.56	Diesel	Fleet Avg	0.55	4.19	3.25	0.01	-	0.16	0.16	-	0.15	0.15	570.13	0.02	0.00
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	2033	Generator Sets	Generator Sets	2	15.0	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.31	0.02	0.00
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	2033	Pumps	Pumps	1	15.0	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	2033	Welders	Welders	2	15.0	46	0.45	Diesel	Fleet Avg	0.34	3.19	4.35	0.01	-	0.03	0.03	-	0.03	0.03	568.31	0.02	0.00
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	2035	Aerial Lifts	Aerial Lifts	1	15.0	46	0.31	Diesel	Fleet Avg	0.14	2.84	3.05	0.01	-	0.02	0.02	-	0.01	0.01	586.90	0.02	0.00
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	2035	Air Compressors	Air Compressors	1	15.0	37	0.48	Diesel	Fleet Avg	0.38	3.22	4.68	0.01	-	0.02	0.02	-	0.02	0.02	568.38	0.02	0.00
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	2035	Pavers	Pavers	1	15.0	81	0.42	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	525.85	0.02	0.00
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	2035	Paving Equipment	Paving Equipment	1	15.0	89	0.36	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	2035	Rollers	Rollers	1	15.0	36	0.38	Diesel	Fleet Avg	0.36	3.32	3.92	0.01	-	0.08	0.08	-	0.07	0.07	587.11	0.02	0.00
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	2027	Air Compressors	Air Compressors	1	15.0	37	0.48	Diesel	Fleet Avg	0.48	3.54	4.79	0.01	-	0.08	0.08	-	0.07	0.07	568.32	0.02	0.00
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	2027	Concrete/Industrial Saws	Concrete/Industrial Saws	2	15.0	33	0.73	Diesel	Fleet Avg	0.39	3.43	4.29	0.01	-	0.07	0.07	-	0.07	0.07	574.33	0.02	0.00
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	2027	Rough Terrain Forklifts	Rough Terrain Forklifts	1	15.0	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.69	0.02	0.00
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	2027	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.37	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.66	0.02	0.00
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	2027	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.62	0.02	0.00
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	2027	Bore/Drill Rigs	Bore/Drill Rigs	2	15.0	83	0.50	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.97	0.02	0.00
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	2027	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.45	0.02	0.00
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	2027	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.56	4.29	2.99	0.01	-	0.17	0.17	-	0.16	0.16	568.30	0.02	0.00
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	2027	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.69	0.02	0.00
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	2027	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.62	0.02	0.00
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	2029	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.15	2.86	3.07	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	2029	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	2029	Excavators	Excavators	2	15.0	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Sepulveda-Metro G Line Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2030	10/31/2030	6	52	20	2030	Cranes	Cranes	1	15.0	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Sepulveda-Metro G Line Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2030	10/31/2030	6	52	20	2030	Generator Sets	Generator Sets	1	15.0	14	0.74	Diesel	Fleet Avg	0.53	4.27	2.84	0.01	-	0.17	0.17	-	0.15	0.15	568.32	0.02	0.00
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	2030	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.15	2.86	3.07	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	2030	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	2030	Excavators	Excavators	2	15.0	36	0.38	Diesel	Fleet Avg	0.33	3.30	4.19	0.01	-	0.07	0.07	-	0.06	0.06	588.07	0.02	0.00
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	2030	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.56	4.25	2.97	0.01	-	0.17	0.17	-	0.15	0.15	568.35	0.02	0.00
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	2030	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.37	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.01	0.02	0.00
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	2031	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.15	2.85	3.07	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	2031	Cement and Mortar Mixers	Cement and Mortar Mixers	1	15.0	10	0.56	Diesel	Fleet Avg	0.55	4.19	3.25	0.01	-	0.16	0.16	-	0.15	0.15	570.20	0.02	0.00
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	2031	Generator Sets	Generator Sets	2	15.0	14	0.74	Diesel	Fleet Avg	0.53	4.26	2.84	0.01	-	0.17	0.17	-	0.15	0.15	568.31	0.02	0.00
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	2031	Pumps	Pumps	1	15.0	11	0.74	Diesel	Fleet Avg	0.56	4.24	2.97	0.01	-	0.17	0.17	-	0.15	0.15	568.32	0.02	0.00
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	2031	Welders	Welders	2	15.0	46	0.45	Diesel	Fleet Avg	0.36	3.24	4.37	0.01	-	0.04	0.04	-	0.04	0.04	568.30	0.02	0.00
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	2026	Air Compressors	Air Compressors	1	15.0	37	0.48	Diesel	Fleet Avg	0.51	3.65	4.82	0.01	-	0.10	0.10	-	0.09	0.09	568.29	0.02	0.00
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	2026	Concrete/Industrial Saws	Concrete/Industrial Saws	2	15.0	33	0.73	Diesel	Fleet Avg	0.41	3.53	4.32	0.01	-	0.09	0.09	-	0.08	0.08	574.36	0.02	0.00
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	2026	Rough Terrain Forklifts	Rough Terrain Forklifts	1	15.0	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.89	0.02	0.00
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	2026	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.37	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.62	0.02	0.00
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	2026	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.71	0.02	0.00
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	2027	Bore/Drill Rigs	Bore/Drill Rigs	2	15.0	83	0.50	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.97	0.02	0.00
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	2027	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.45	0.02	0.00
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	2027	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.56	4.29	2.99	0.01	-	0.17	0.17	-	0.16	0.16	568.30	0.02	0.00
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	2027	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.69	0.02	0.00
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	2027	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.62	0.02	0.00
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	2028	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.15	2.87	3.08	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	2028	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.75	0.02	0.00
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	2028	Excavators	Excavators	2	15.0	36	0.38	Diesel	Fleet Avg	0.37	3.34	4.22	0.01	-	0.08	0.08	-	0.07	0.07	587.54	0.02	0.00
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.57	0.02	0.00
Sherman Way Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2029	10/31/2029	6	52	10	2029	Cranes	Cranes	1	7.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Sherman Way Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2029	10/31/2029	6	52	10	2029	Generator Sets	Generator Sets	1	7.5	14	0.74	Diesel	Fleet Avg	0.53	4.28	2.84	0.01	-	0.17	0.17	-	0.15	0.15	568.32	0.02	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 5

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Daily Emissions (lb/day) ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	2026	Air Compressors	Air Compressors	1	15.0	37	0.48	Diesel	Fleet Avg	0.30	2.14	2.83	0.00	-	0.06	0.06	-	0.05	0.05	333.8	0.01	0.00
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	2026	Concrete/Industrial Saws	Concrete/Industrial Saws	2	15.0	33	0.73	Diesel	Fleet Avg	0.66	5.62	6.88	0.01	-	0.14	0.14	-	0.12	0.12	915.1	0.04	0.01
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	2026	Rough Terrain Forklifts	Rough Terrain Forklifts	1	15.0	96	0.40	Diesel	Tier 4 Final	0.06	0.33	4.70	0.01	-	0.01	0.01	-	0.01	0.01	671.6	0.03	0.01
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	2026	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.37	Diesel	Tier 4 Final	0.16	4.76	6.43	0.01	-	0.02	0.02	-	0.02	0.02	918.5	0.04	0.01
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	2026	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.9	0.04	0.01
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	2026	Bore/Drill Rigs	Bore/Drill Rigs	2	15.0	83	0.50	Diesel	Tier 4 Final	0.14	0.71	10.16	0.01	-	0.03	0.03	-	0.03	0.03	1441.2	0.06	0.01
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	2026	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.35	1.83	18.30	0.03	-	0.07	0.07	-	0.07	0.07	3712.9	0.15	0.03
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	2026	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.31	2.32	1.61	0.00	-	0.10	0.10	-	0.09	0.09	306.0	0.01	0.00
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	2026	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.13	0.66	9.40	0.01	-	0.03	0.03	-	0.03	0.03	1343.2	0.05	0.01
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	2026	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.9	0.04	0.01
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	2027	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.14	2.71	2.90	0.01	-	0.02	0.02	-	0.02	0.02	553.5	0.02	0.00
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	2027	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.35	1.83	18.30	0.03	-	0.07	0.07	-	0.07	0.07	3712.8	0.15	0.03
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	2027	Excavators	Excavators	2	15.0	36	0.38	Diesel	Fleet Avg	0.34	3.05	3.81	0.00	-	0.08	0.08	-	0.07	0.07	531.5	0.02	0.00
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	2027	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.7	0.04	0.01
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	2028	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.14	2.71	2.90	0.01	-	0.02	0.02	-	0.02	0.02	553.5	0.02	0.00
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	2028	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.35	1.83	18.30	0.03	-	0.07	0.07	-	0.07	0.07	3714.9	0.15	0.03
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	2028	Excavators	Excavators	2	15.0	36	0.38	Diesel	Fleet Avg	0.33	3.02	3.82	0.00	-	0.07	0.07	-	0.07	0.07	531.6	0.02	0.00
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	2028	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.30	2.30	1.60	0.00	-	0.09	0.09	-	0.08	0.08	306.0	0.01	0.00
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	2028	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.37	Diesel	Tier 4 Final	0.16	4.76	6.43	0.01	-	0.02	0.02	-	0.02	0.02	918.4	0.04	0.01
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.6	0.04	0.01
Ventura Blvd Stn_U-Alt5-Mobilize/Launch Reach 2 TBM	10/1/2028	1/30/2029	7	122	20	2028	Cranes	Cranes	-	15.0	367	0.29	Diesel	Tier 4 Final	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Retrieve/Demob Reach 3 TBM	2/19/2032	5/18/2032	7	90	20	2032	Cranes	Cranes	-	15.0	367	0.29	Diesel	Tier 4 Final	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	2031	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.14	2.69	2.89	0.01	-	0.02	0.02	-	0.02	0.02	553.5	0.02	0.00
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	2031	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.35	1.83	18.30	0.03	-	0.07	0.07	-	0.07	0.07	3713.9	0.15	0.03
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	2031	Excavators	Excavators	2	15.0	36	0.38	Diesel	Fleet Avg	0.28	2.97	3.77	0.00	-	0.05	0.05	-	0.05	0.05	532.1	0.02	0.00
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	2031	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.30	2.28	1.60	0.00	-	0.09	0.09	-	0.08	0.08	306.0	0.01	0.00
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	2031	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.37	Diesel	Tier 4 Final	0.16	4.76	6.43	0.01	-	0.02	0.02	-	0.02	0.02	919.2	0.04	0.01
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	2031	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.0	0.04	0.01
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	2033	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.14	2.69	2.89	0.01	-	0.02	0.02	-	0.01	0.01	553.5	0.02	0.00
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	2033	Cement and Mortar Mixers	Cement and Mortar Mixers	1	15.0	10	0.56	Diesel	Fleet Avg	0.10	0.78	0.60	0.00	-	0.03	0.03	-	0.03	0.03	105.6	0.00	0.00
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	2033	Generator Sets	Generator Sets	2	15.0	14	0.74	Diesel	Fleet Avg	0.36	2.91	1.95	0.01	-	0.11	0.11	-	0.10	0.10	389.4	0.02	0.00
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	2033	Pumps	Pumps	1	15.0	11	0.74	Diesel	Fleet Avg	0.15	1.14	0.80	0.00	-	0.04	0.04	-	0.04	0.04	153.0	0.01	0.00
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	2033	Welders	Welders	2	15.0	46	0.45	Diesel	Fleet Avg	0.47	4.36	5.96	0.01	-	0.04	0.04	-	0.04	0.04	778.1	0.03	0.01
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	2035	Aerial Lifts	Aerial Lifts	1	15.0	46	0.31	Diesel	Fleet Avg	0.06	1.34	1.44	0.00	-	0.01	0.01	-	0.01	0.01	276.8	0.01	0.00
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	2035	Air Compressors	Air Compressors	1	15.0	37	0.48	Diesel	Fleet Avg	0.22	1.89	2.75	0.00	-	0.01	0.01	-	0.01	0.01	333.8	0.01	0.00
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	2035	Pavers	Pavers	1	15.0	81	0.42	Diesel	Tier 4 Final	0.06	0.29	4.16	0.01	-	0.01	0.01	-	0.01	0.01	591.6	0.02	0.00
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	2035	Paving Equipment	Paving Equipment	1	15.0	89	0.36	Diesel	Tier 4 Final	0.05	0.28	3.92	0.01	-	0.01	0.01	-	0.01	0.01	559.0	0.02	0.00
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	2035	Rollers	Rollers	1	15.0	36	0.38	Diesel	Fleet Avg	0.16	1.50	1.77	0.00	-	0.04	0.04	-	0.03	0.03	265.6	0.01	0.00
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	2027	Air Compressors	Air Compressors	1	15.0	37	0.48	Diesel	Fleet Avg	0.28	2.08	2.81	0.00	-	0.05	0.05	-	0.04	0.04	333.8	0.01	0.00
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	2027	Concrete/Industrial Saws	Concrete/Industrial Saws	2	15.0	33	0.73	Diesel	Fleet Avg	0.62	5.46	6.84	0.01	-	0.11	0.11	-	0.10	0.10	915.1	0.04	0.01
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	2027	Rough Terrain Forklifts	Rough Terrain Forklifts	1	15.0	96	0.40	Diesel	Tier 4 Final	0.06	0.33	4.70	0.01	-	0.01	0.01	-	0.01	0.01	671.4	0.03	0.01
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	2027	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.37	Diesel	Tier 4 Final	0.16	4.76	6.43	0.01	-	0.02	0.02	-	0.02	0.02	918.5	0.04	0.01
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	2027	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.7	0.04	0.01
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	2027	Bore/Drill Rigs	Bore/Drill Rigs	2	15.0	83	0.50	Diesel	Tier 4 Final	0.14	0.71	10.16	0.01	-	0.03	0.03	-	0.03	0.03	1438.2	0.06	0.01
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	2027	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.35	1.83	18.30	0.03	-	0.07	0.07	-	0.07	0.07	3712.8	0.15	0.03
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	2027	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.30	2.31	1.61	0.00	-	0.09	0.09	-	0.09	0.09	306.0	0.01	0.00
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	2027	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.13	0.66	9.40	0.01	-	0.03	0.03	-	0.03	0.03	1342.7	0.05	0.01
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	2027	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.7	0.04	0.01
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	2029	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.14	2.70	2.90	0.01	-	0.02	0.02	-	0.02	0.02	553.5	0.02	0.00
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	2029	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.35	1.83	18.30	0.03	-	0.07	0.07	-	0.07	0.07	3713.9	0.15	0.03
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	2029	Excavators	Excavators	2	15.0	36	0.38	Diesel	Fleet Avg	0.32	3.00	3.82	0.00	-	0.07	0.07	-	0.06	0.06	532.1	0.02	0.00
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.0	0.04	0.01
Sepulveda-Metro G Line Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2030	10/31/2030	6	52	20	2030	Cranes	Cranes	1	15.0	367	0.29	Diesel	Tier 4 Final	0.18	0.92	9.15	0.02	-	0.04	0.04	-	0.04	0.04	1857.0	0.08	0.02
Sepulveda-Metro G Line Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2030	10/31/2030	6	52	20	2030	Generator Sets	Generator Sets	1	15.0	14	0.74	Diesel	Fleet Avg	0.18	1.46	0.97	0.00	-	0.06	0.06	-	0.05	0.05	194.7	0.01	0.00
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	2030	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.14	2.70	2.89	0.01	-	0.02	0.02	-	0.02	0.02	553.5	0.02	0.00
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	2030	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.35	1.83	18.30	0.03	-	0.07	0.07	-	0.07	0.07	3713.9	0.15	0.03
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	2030	Excavators	Excavators	2	15.0	36	0.38	Diesel	Fleet Avg	0.30	2.98	3.79	0.00	-	0.06	0.06	-	0.06	0.06	532.1	0.02	0.00
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	2030	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.30	2.29	1.60	0.00	-	0.09	0.09	-	0.08	0.08	306.0	0.01	0.00
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	2030	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.37	Diesel	Tier 4 Final	0.16	4.76	6.43	0.01	-	0.02	0.02	-	0.02	0.02	919.1	0.04	0.01
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.0	0.04	0.01
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	2031	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.14	2.69	2.89	0.01	-	0.02	0.02	-	0.02	0.02	553.5	0.02	0.00
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	2031	Cement and Mortar Mixers	Cement and Mortar Mixers	1	15.0	10	0.56	Diesel	Fleet Avg	0.10	0.78	0.60	0.00	-	0.03	0.03	-	0.03	0.03	105.6	0.00	0.00
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	2031	Generator Sets	Generator Sets	2	15.0	14	0.74	Diesel	Fleet Avg	0.36	2.92	1.95	0.01	-	0.11	0.11	-	0.10	0.10	389.4	0.02	0.00
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	2031	Pumps	Pumps	1	15.0	11	0.74	Diesel	Fleet Avg	0.15	1.14	0.80	0.00	-	0.04	0.04	-	0.04	0.04	153.0	0.01	0.00
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	2031	Welders	Welders	2	15.0	46	0.45	Diesel	Fleet Avg	0.49	4.44	5.99	0.01	-	0.05	0.05	-	0.05	0.05	778.0	0.03	0.01
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	2026	Air Compressors	Air Compressors	1	15.0	37	0.48	Diesel	Fleet Avg	0.30	2.14	2.83	0.00	-	0.06	0.06	-	0.05	0.05	333.8	0.01	0.00
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	2026	Concrete/Industrial Saws	Concrete/Industrial Saws	2	15.0	33	0.73	Diesel	Fleet Avg	0.66	5.62	6.88	0.01	-	0.14	0.14	-	0.12	0.12	915.1	0.04	0.01
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	2026	Rough Terrain Forklifts	Rough Terrain Forklifts	1	15.0	96	0.40	Diesel	Tier 4 Final	0.06	0.33	4.70	0.01	-	0.01	0.01	-	0.01	0.01	671.6	0.03	0.01
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	2026	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.37	Diesel	Tier 4 Final	0.16	4.76	6.43	0.01	-	0.02	0.02	-	0.02	0.02	918.5	0.04	0.01
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	2026	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.9	0.04	0.01
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	2027	Bore/Drill Rigs	Bore/Drill Rigs	2	15.0	83	0.50	Diesel	Tier 4 Final	0.14	0.71	10.16	0.01	-	0.03	0.03	-	0.03	0.03	1438.2	0.06	0.01
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	2027	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.35	1.83	18.30	0.03	-	0.07	0.07	-	0.07	0.07	3712.8	0.15	0.03
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	2027	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.30	2.31	1.61	0.00	-	0.09	0.09	-	0.09	0.09	306.0	0.01	0.00
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	2027	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.13	0.66	9.40	0.01	-	0.03	0.03	-	0.03	0.03	1342.7	0.05	0.01
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	2027	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.7	0.04	0.01
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	2028	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.14	2.71	2.90	0.01	-	0.02	0.02	-	0.02	0.02	553.5	0.02	0.00
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	2028	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.35	1.83	18.30	0.03	-	0.07	0.07	-	0.07	0.07	3714.9	0.15	0.03
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	2028	Excavators	Excavators	2	15.0	36	0.38	Diesel	Fleet Avg	0.33	3.02	3.82	0.00	-	0.07	0.07	-	0.07	0.07	531.6	0.02	0.00
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.6	0.04	0.01
Sherman Way Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2029	10/31/2029	6	52	10	2029	Cranes	Cranes	1	7.5	367	0.29	Diesel	Tier 4 Final	0.09	0.46	4.58	0.01	-	0.02	0.02	-	0.02	0.02	928.5	0.04	0.01
Sherman Way Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2029	10/31/2029	6	52	10	2029	Generator Sets	Generator Sets	1	7.5	14	0.74	Diesel	Fleet Avg	0.09	0.73	0.49	0.00	-	0.03	0.03	-	0.03	0.03	97.4	0.00	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 5

OFFROAD EQUIPMENT (ONSITE)[1]

															Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	2026	Air Compressors	Air Compressors	1	15.0	37	0.48	Diesel	Fleet Avg	0.03	0.21	0.28	0.00	-	0.01	0.01	-	0.01	0.01	29.5	0.00	0.00	29.6
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	2026	Concrete/Industrial Saws	Concrete/Industrial Saws	2	15.0	33	0.73	Diesel	Fleet Avg	0.06	0.55	0.67	0.00	-	0.01	0.01	-	0.01	0.01	80.9	0.00	0.00	81.2
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	2026	Rough Terrain Forklifts	Rough Terrain Forklifts	1	15.0	96	0.40	Diesel	Tier 4 Final	0.01	0.03	0.46	0.00	-	0.00	0.00	-	0.00	0.00	59.4	0.00	0.00	59.6
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	2026	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.37	Diesel	Tier 4 Final	0.02	0.46	0.63	0.00	-	0.00	0.00	-	0.00	0.00	81.2	0.00	0.00	81.5
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	2026	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.01	0.05	0.74	0.00	-	0.00	0.00	-	0.00	0.00	96.3	0.00	0.00	96.6
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	2026	Bore/Drill Rigs	Bore/Drill Rigs	2	15.0	83	0.50	Diesel	Tier 4 Final	0.02	0.13	1.79	0.00	-	0.00	0.00	-	0.00	0.00	230.1	0.01	0.00	230.9
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	2026	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.06	0.32	3.22	0.01	-	0.01	0.01	-	0.01	0.01	592.8	0.02	0.00	594.8
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	2026	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.05	0.41	0.28	0.00	-	0.02	0.02	-	0.02	0.02	48.9	0.00	0.00	49.0
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	2026	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.02	0.12	1.65	0.00	-	0.00	0.00	-	0.00	0.00	214.5	0.01	0.00	215.2
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	2026	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.02	0.09	1.34	0.00	-	0.00	0.00	-	0.00	0.00	173.9	0.01	0.00	174.4
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	2027	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.03	0.57	0.61	0.00	-	0.00	0.00	-	0.00	0.00	105.0	0.00	0.00	105.3
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	2027	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.07	0.38	3.83	0.01	-	0.01	0.01	-	0.01	0.01	704.0	0.03	0.01	706.4
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	2027	Excavators	Excavators	2	15.0	36	0.38	Diesel	Fleet Avg	0.07	0.64	0.80	0.00	-	0.02	0.02	-	0.02	0.02	100.8	0.00	0.00	101.1
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	2027	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.02	0.11	1.59	0.00	-	0.00	0.00	-	0.00	0.00	206.4	0.01	0.00	207.1
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	2028	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.01	0.14	0.15	0.00	-	0.00	0.00	-	0.00	0.00	26.4	0.00	0.00	26.5
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	2028	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.02	0.10	0.96	0.00	-	0.00	0.00	-	0.00	0.00	176.9	0.01	0.00	177.5
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	2028	Excavators	Excavators	2	15.0	36	0.38	Diesel	Fleet Avg	0.02	0.16	0.20	0.00	-	0.00	0.00	-	0.00	0.00	25.3	0.00	0.00	25.4
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	2028	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.02	0.12	0.08	0.00	-	0.00	0.00	-	0.00	0.00	14.6	0.00	0.00	14.6
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	2028	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.37	Diesel	Tier 4 Final	0.01	0.25	0.34	0.00	-	0.00	0.00	-	0.00	0.00	43.7	0.00	0.00	43.9
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.01	0.03	0.40	0.00	-	0.00	0.00	-	0.00	0.00	51.8	0.00	0.00	52.0
Ventura Blvd Stn_U-Alt5-Mobilize/Launch Reach 2 TBM	10/1/2028	1/30/2029	7	122	20	2028	Cranes	Cranes	-	15.0	367	0.29	Diesel	Tier 4 Final	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Retrieve/Demob Reach 3 TBM	2/19/2032	5/18/2032	7	90	20	2032	Cranes	Cranes	-	15.0	367	0.29	Diesel	Tier 4 Final	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	2031	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.04	0.83	0.90	0.00	-	0.01	0.01	-	0.00	0.00	155.7	0.01	0.00	156.2
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	2031	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.11	0.57	5.67	0.01	-	0.02	0.02	-	0.02	0.02	1044.5	0.04	0.01	1048.0
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	2031	Excavators	Excavators	2	15.0	36	0.38	Diesel	Fleet Avg	0.09	0.92	1.17	0.00	-	0.02	0.02	-	0.01	0.01	149.6	0.01	0.00	150.1
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	2031	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.09	0.71	0.50	0.00	-	0.03	0.03	-	0.03	0.03	86.0	0.00	0.00	86.3
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	2031	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.37	Diesel	Tier 4 Final	0.05	1.48	1.99	0.00	-	0.01	0.01	-	0.01	0.01	258.5	0.01	0.00	259.4
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	2031	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.03	0.17	2.36	0.00	-	0.01	0.01	-	0.01	0.01	306.0	0.01	0.00	307.0
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	2033	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.05	1.04	1.12	0.00	-	0.01	0.01	-	0.01	0.01	194.6	0.01	0.00	195.3
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	2033	Cement and Mortar Mixers	Cement and Mortar Mixers	1	15.0	10	0.56	Diesel	Fleet Avg	0.04	0.30	0.23	0.00	-	0.01	0.01	-	0.01	0.01	37.1	0.00	0.00	37.2
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	2033	Generator Sets	Generator Sets	2	15.0	14	0.74	Diesel	Fleet Avg	0.14	1.13	0.75	0.00	-	0.04	0.04	-	0.04	0.04	136.9	0.01	0.00	137.4
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	2033	Pumps	Pumps	1	15.0	11	0.74	Diesel	Fleet Avg	0.06	0.44	0.31	0.00	-	0.02	0.02	-	0.02	0.02	53.8	0.00	0.00	54.0
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	2033	Welders	Welders	2	15.0	46	0.45	Diesel	Fleet Avg	0.18	1.69	2.31	0.00	-	0.02	0.02	-	0.01	0.01	273.5	0.01	0.00	274.5
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	2035	Aerial Lifts	Aerial Lifts	1	15.0	46	0.31	Diesel	Fleet Avg	0.00	0.04	0.04	0.00	-	0.00	0.00	-	0.00	0.00	6.7	0.00	0.00	6.7
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	2035	Air Compressors	Air Compressors	1	15.0	37	0.48	Diesel	Fleet Avg	0.01	0.05	0.07	0.00	-	0.00	0.00	-	0.00	0.00	8.0	0.00	0.00	8.1
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	2035	Pavers	Pavers	1	15.0	81	0.42	Diesel	Tier 4 Final	0.00	0.01	0.11	0.00	-	0.00	0.00	-	0.00	0.00	14.2	0.00	0.00	14.3
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	2035	Paving Equipment	Paving Equipment	1	15.0	89	0.36	Diesel	Tier 4 Final	0.00	0.01	0.10	0.00	-	0.00	0.00	-	0.00	0.00	13.4	0.00	0.00	13.5
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	2035	Rollers	Rollers	1	15.0	36	0.38	Diesel	Fleet Avg	0.00	0.04	0.05	0.00	-	0.00	0.00	-	0.00	0.00	6.4	0.00	0.00	6.4
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	2027	Air Compressors	Air Compressors	1	15.0	37	0.48	Diesel	Fleet Avg	0.03	0.22	0.30	0.00	-	0.01	0.01	-	0.00	0.00	31.8	0.00	0.00	31.9
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	2027	Concrete/Industrial Saws	Concrete/Industrial Saws	2	15.0	33	0.73	Diesel	Fleet Avg	0.07	0.57	0.72	0.00	-	0.01	0.01	-	0.01	0.01	87.2	0.00	0.00	87.5
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	2027	Rough Terrain Forklifts	Rough Terrain Forklifts	1	15.0	96	0.40	Diesel	Tier 4 Final	0.01	0.03	0.49	0.00	-	0.00	0.00	-	0.00	0.00	64.0	0.00	0.00	64.2
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	2027	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.37	Diesel	Tier 4 Final	0.02	0.50	0.68	0.00	-	0.00	0.00	-	0.00	0.00	87.5	0.00	0.00	87.8
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	2027	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.01	0.06	0.80	0.00	-	0.00	0.00	-	0.00	0.00	103.7	0.00	0.00	104.1
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	2027	Bore/Drill Rigs	Bore/Drill Rigs	2	15.0	83	0.50	Diesel	Tier 4 Final	0.03	0.13	1.86	0.00	-	0.01	0.01	-	0.01	0.01	238.8	0.01	0.00	239.6
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	2027	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.06	0.33	3.35	0.01	-	0.01	0.01	-	0.01	0.01	616.4	0.03	0.01	618.5
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	2027	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.06	0.42	0.29	0.00	-	0.02	0.02	-	0.02	0.02	50.8	0.00	0.00	51.0
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	2027	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.02	0.12	1.72	0.00	-	0.00	0.00	-	0.00	0.00	222.9	0.01	0.00	223.7
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	2027	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.02	0.10	1.39	0.00	-	0.00	0.00	-	0.00	0.00	180.7	0.01	0.00	181.4
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	2029	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.03	0.56	0.60	0.00	-	0.00	0.00	-	0.00	0.00	103.4	0.00	0.00	103.8
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	2029	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.07	0.38	3.77	0.01	-	0.01	0.01	-	0.01	0.01	694.1	0.03	0.01	696.4
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	2029	Excavators	Excavators	2	15.0	36	0.38	Diesel	Fleet Avg	0.07	0.62	0.79	0.00	-	0.01	0.01	-	0.01	0.01	99.4	0.00	0.00	99.8
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.02	0.11	1.57	0.00	-	0.00	0.00	-	0.00	0.00	203.3	0.01	0.00	204.0
Sepulveda-Metro G Line Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2030	10/31/2030	6	52	20	2030	Cranes	Cranes	1	15.0	367	0.29	Diesel	Tier 4 Final	0.00	0.02	0.24	0.00	-	0.00	0.00	-	0.00	0.00	43.8	0.00	0.00	44.0
Sepulveda-Metro G Line Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2030	10/31/2030	6	52	20	2030	Generator Sets	Generator Sets	1	15.0	14	0.74	Diesel	Fleet Avg	0.00	0.04	0.03	0.00	-	0.00	0.00	-	0.00	0.00	4.6	0.00	0.00	4.6
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	2030	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.04	0.84	0.90	0.00	-	0.01	0.01	-	0.01	0.01	155.9	0.01	0.00	156.5
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	2030	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.11	0.57	5.68	0.01	-	0.02	0.02	-	0.02	0.02	1046.1	0.04	0.01	1049.7
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	2030	Excavators	Excavators	2	15.0	36	0.38	Diesel	Fleet Avg	0.09	0.93	1.18	0.00	-	0.02	0.02	-	0.02	0.02	149.9	0.01	0.00	150.4
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	2030	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.09	0.71	0.50	0.00	-	0.03	0.03	-	0.03	0.03	86.2	0.00	0.00	86.5
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	2030	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.37	Diesel	Tier 4 Final	0.05	1.48	2.00	0.00	-	0.01	0.01	-	0.01	0.01	258.9	0.01	0.00	259.8
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.03	0.17	2.36	0.00	-	0.01	0.01	-	0.01	0.01	306.5	0.01	0.00	307.5
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	2031	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.05	1.04	1.12	0.00	-	0.01	0.01	-	0.01	0.01	194.6	0.01	0.00	195.3
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	2031	Cement and Mortar Mixers	Cement and Mortar Mixers	1	15.0	10	0.56	Diesel	Fleet Avg	0.04	0.30	0.23	0.00	-	0.01	0.01	-	0.01	0.01	37.1	0.00	0.00	37.2
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	2031	Generator Sets	Generator Sets	2	15.0	14	0.74	Diesel	Fleet Avg	0.14	1.13	0.75	0.00	-	0.04	0.04	-	0.04	0.04	136.9	0.01	0.00	137.4
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	2031	Pumps	Pumps	1	15.0	11	0.74	Diesel	Fleet Avg	0.06	0.44	0.31	0.00	-	0.02	0.02	-	0.02	0.02	53.8	0.00	0.00	54.0
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	2031	Welders	Welders	2	15.0	46	0.45	Diesel	Fleet Avg	0.19	1.72	2.32	0.00	-	0.02	0.02	-	0.02	0.02	273.5	0.01	0.00	274.4
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	2026	Air Compressors	Air Compressors	1	15.0	37	0.48	Diesel	Fleet Avg	0.03	0.22	0.29	0.00	-	0.01	0.01	-	0.01	0.01	31.5	0.00	0.00	31.6
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	2026	Concrete/Industrial Saws	Concrete/Industrial Saws	2	15.0	33	0.73	Diesel	Fleet Avg	0.07	0.58	0.72	0.00	-	0.01	0.01	-	0.01	0.01	86.3	0.00	0.00	86.6
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	2026	Rough Terrain Forklifts	Rough Terrain Forklifts	1	15.0	96	0.40	Diesel	Tier 4 Final	0.01	0.03	0.49	0.00	-	0.00	0.00	-	0.00	0.00	63.4	0.00	0.00	63.6
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	2026	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.37	Diesel	Tier 4 Final	0.02	0.50	0.67	0.00	-	0.00	0.00	-	0.00	0.00	86.7	0.00	0.00	87.0
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	2026	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.01	0.06	0.79	0.00	-	0.00	0.00	-	0.00	0.00	102.7	0.00	0.00	103.1
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	2027	Bore/Drill Rigs	Bore/Drill Rigs	2	15.0	83	0.50	Diesel	Tier 4 Final	0.03	0.13	1.85	0.00	-	0.01	0.01	-	0.01	0.01	238.1	0.01	0.00	238.9
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	2027	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.06	0.33	3.34	0.01	-	0.01	0.01	-	0.01	0.01	614.7	0.02	0.00	616.8
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	2027	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.06	0.42	0.29	0.00	-	0.02	0.02	-	0.02	0.02	50.7	0.00	0.00	50.8
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	2027	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.02	0.12	1.71	0.00	-	0.00	0.00	-	0.00	0.00	222.3	0.01	0.00	223.1
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	2027	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.02	0.10	1.39	0.00	-	0.00	0.00	-	0.00	0.00	180.2	0.01	0.00	180.9
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	2028	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.03	0.56	0.60	0.00	-	0.00	0.00	-	0.00	0.00	104.4	0.00	0.00	104.8
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	2028	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.07	0.38	3.81	0.01	-	0.01	0.01	-	0.01	0.01	701.0	0.03	0.01	703.4
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	2028	Excavators	Excavators	2	15.0	36	0.38	Diesel	Fleet Avg	0.07	0.63	0.79	0.00	-	0.02	0.02	-	0.01	0.01	100.3	0.00	0.00	100.7
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.02	0.11	1.58	0.00	-	0.00	0.00	-	0.00	0.00	205.4	0.01	0.00	206.1
Sherman Way Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2029	10/31/2029	6	52	10	2029	Cranes	Cranes	1	7.5	367	0.29	Diesel	Tier 4 Final	0.00	0.01	0.12	0.00	-	0.00	0.00	-	0.00	0.00	21.9	0.00	0.00	22.0
Sherman Way Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2029	10/31/2029	6	52	10	2029	Generator Sets	Generator Sets	1	7.5	14	0.74	Diesel	Fleet Avg	0.00	0.02	0.01	0.00	-	0.00	0.00	-	0.00	0.00	2.3	0.00	0.00	2.3

Sepulveda Transit Corridor Project - ALTERNATIVE 5

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Emission Factor (g/bhp-hr)[3] ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	2029	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.15	2.86	3.07	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	2029	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	2029	Excavators	Excavators	2	15.0	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	2029	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.56	4.26	2.98	0.01	-	0.17	0.17	-	0.15	0.15	568.32	0.02	0.00
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	2029	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.37	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.01	0.02	0.00
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	2030	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.15	2.86	3.07	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	2030	Cement and Mortar Mixers	Cement and Mortar Mixers	1	15.0	10	0.56	Diesel	Fleet Avg	0.55	4.19	3.25	0.01	-	0.16	0.16	-	0.15	0.15	570.18	0.02	0.00
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	2030	Generator Sets	Generator Sets	2	15.0	14	0.74	Diesel	Fleet Avg	0.53	4.27	2.84	0.01	-	0.17	0.17	-	0.15	0.15	568.32	0.02	0.00
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	2030	Pumps	Pumps	1	15.0	11	0.74	Diesel	Fleet Avg	0.56	4.25	2.97	0.01	-	0.17	0.17	-	0.15	0.15	568.35	0.02	0.00
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	2030	Welders	Welders	2	15.0	46	0.45	Diesel	Fleet Avg	0.37	3.27	4.39	0.01	-	0.05	0.05	-	0.04	0.04	568.30	0.02	0.00
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	2033	Aerial Lifts	Aerial Lifts	1	7.5	46	0.31	Diesel	Fleet Avg	0.14	2.85	3.06	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	2033	Air Compressors	Air Compressors	1	7.5	37	0.48	Diesel	Fleet Avg	0.39	3.25	4.68	0.01	-	0.03	0.03	-	0.03	0.03	568.34	0.02	0.00
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	2033	Pavers	Pavers	1	7.5	81	0.42	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	525.85	0.02	0.00
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	2033	Paving Equipment	Paving Equipment	1	7.5	89	0.36	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	2033	Rollers	Rollers	1	7.5	36	0.38	Diesel	Fleet Avg	0.40	3.39	3.98	0.01	-	0.09	0.09	-	0.09	0.09	587.11	0.02	0.00
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	2029	Air Compressors	Air Compressors	1	15.0	37	0.48	Diesel	Fleet Avg	0.44	3.38	4.73	0.01	-	0.05	0.05	-	0.05	0.05	568.31	0.02	0.00
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	2029	Concrete/Industrial Saws	Concrete/Industrial Saws	2	15.0	33	0.73	Diesel	Fleet Avg	0.35	3.29	4.26	0.01	-	0.05	0.05	-	0.04	0.04	574.49	0.02	0.00
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	1	15.0	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	2029	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.37	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.01	0.02	0.00
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	2030	Bore/Drill Rigs	Bore/Drill Rigs	2	15.0	83	0.50	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.33	0.02	0.00
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	2030	Cranes	Cranes	3	15.0	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	2030	Pumps	Pumps	3	15.0	11	0.74	Diesel	Fleet Avg	0.56	4.25	2.97	0.01	-	0.17	0.17	-	0.15	0.15	568.35	0.02	0.00
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	2030	Aerial Lifts	Aerial Lifts	4	15.0	46	0.31	Diesel	Fleet Avg	0.15	2.86	3.07	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	2030	Cranes	Cranes	4	15.0	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	2030	Other Construction Equipment	Other Construction Equipme	2	15.0	82	0.42	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	526.89	0.02	0.00
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	2030	Welders	Welders	2	15.0	46	0.45	Diesel	Fleet Avg	0.37	3.27	4.39	0.01	-	0.05	0.05	-	0.04	0.04	568.30	0.02	0.00
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	2031	Aerial Lifts	Aerial Lifts	4	15.0	46	0.31	Diesel	Fleet Avg	0.15	2.85	3.07	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	2031	Air Compressors	Air Compressors	4	15.0	37	0.48	Diesel	Fleet Avg	0.41	3.31	4.70	0.01	-	0.04	0.04	-	0.04	0.04	568.34	0.02	0.00
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	2031	Cranes	Cranes	4	15.0	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	2031	Other Construction Equipment	Other Construction Equipme	2	15.0	82	0.42	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	526.88	0.02	0.00
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	2031	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	2031	Welders	Welders	2	15.0	46	0.45	Diesel	Fleet Avg	0.36	3.24	4.37	0.01	-	0.04	0.04	-	0.04	0.04	568.30	0.02	0.00
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	2032	Aerial Lifts	Aerial Lifts	1	15.0	46	0.31	Diesel	Fleet Avg	0.15	2.85	3.06	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	2032	Air Compressors	Air Compressors	1	15.0	37	0.48	Diesel	Fleet Avg	0.40	3.28	4.69	0.01	-	0.03	0.03	-	0.03	0.03	568.28	0.02	0.00
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	2032	Pavers	Pavers	1	15.0	81	0.42	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	525.85	0.02	0.00
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	2032	Paving Equipment	Paving Equipment	1	15.0	89	0.36	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	2032	Rollers	Rollers	1	15.0	36	0.38	Diesel	Fleet Avg	0.42	3.41	4.01	0.01	-	0.10	0.10	-	0.09	0.09	587.11	0.02	0.00
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Trenchers	Trenchers	1	7.5	40	0.50	Diesel	Fleet Avg	0.34	3.23	3.85	0.01	-	0.07	0.07	-	0.06	0.06	588.16	0.02	0.00
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Skid Steer Loaders	Skid Steer Loaders	1	7.5	71	0.37	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.01	0.02	0.00
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	1	7.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Cranes	Cranes	1	7.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Pumps	Pumps	1	7.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.34	0.02	0.00
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	1	7.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Aerial Lifts	Aerial Lifts	1	7.5	46	0.31	Diesel	Fleet Avg	0.14	2.85	3.06	0.01	-	0.02	0.02	-	0.01	0.01	586.90	0.02	0.00
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Cranes	Cranes	1	7.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Rough Terrain Forklifts	Rough Terrain Forklifts	1	7.5	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Welders	Welders	1	7.5	46	0.45	Diesel	Fleet Avg	0.34	3.17	4.35	0.01	-	0.03	0.03	-	0.02	0.02	568.32	0.02	0.00
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Air Compressors	Air Compressors	1	7.5	37	0.48	Diesel	Fleet Avg	0.39	3.23	4.68	0.01	-	0.03	0.03	-	0.02	0.02	568.40	0.02	0.00
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Generator Sets	Generator Sets	1	7.5	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Skid Steer Loaders	Skid Steer Loaders	1	7.5	71	0.37	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.01	0.02	0.00
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Concrete/Industrial Saws	Concrete/Industrial Saws	1	7.5	33	0.73	Diesel	Fleet Avg	0.32	3.20	4.22	0.01	-	0.03	0.03	-	0.03	0.03	573.77	0.02	0.00
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Excavators	Excavators	3	7.5	36	0.38	Diesel	Fleet Avg	0.29	3.27	4.15	0.01	-	0.05	0.05	-	0.05	0.05	588.07	0.02	0.00
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Rubber Tired Dozers	Rubber Tired Dozers	2	7.5	367	0.40	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	532.42	0.02	0.00
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Rubber Tired Dozers	Rubber Tired Dozers	3	7.5	367	0.40	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	532.42	0.02	0.00
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	4	7.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Excavators	Excavators	2	7.5	36	0.38	Diesel	Fleet Avg	0.29	3.27	4.15	0.01	-	0.05	0.05	-	0.05	0.05	588.07	0.02	0.00
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Graders	Graders	1	7.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	531.05	0.02	0.00
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Rubber Tired Dozers	Rubber Tired Dozers	1	7.5	367	0.40	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	532.42	0.02	0.00
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Scrapers	Scrapers	2	7.5	423	0.48	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	528.52	0.02	0.00
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	7.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Cranes	Cranes	1	7.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Forklifts	Forklifts	3	7.5	82	0.20	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	527.08	0.02	0.00
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Generator Sets	Generator Sets	1	7.5	14	0.74	Diesel	Fleet Avg	0.53	4.26	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	3	7.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Welders	Welders	1	7.5	46	0.45	Diesel	Fleet Avg	0.35	3.21	4.36	0.01	-	0.03	0.03	-	0.03	0.03	568.31	0.02	0.00
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Pavers	Pavers	2	7.5	81	0.42	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	525.86	0.02	0.00
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Paving Equipment	Paving Equipment	2	7.5	89	0.36	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Rollers	Rollers	2	7.5	36	0.38	Diesel	Fleet Avg	0.37	3.36	3.94	0.01	-	0.09	0.09	-	0.08	0.08	587.11	0.02	0.00
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Air Compressors	Air Compressors	1	7.5	37	0.48	Diesel	Fleet Avg	0.39	3.23	4.68	0.01	-	0.03	0.03	-	0.02	0.02	568.40	0.02	0.00
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Aerial Lifts	Aerial Lifts	2	7.5	46	0.31	Diesel	Fleet Avg	0.15	2.85	3.06	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Rough Terrain Forklifts	Rough Terrain Forklifts	2	7.5	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Welders	Welders	2	7.5	46	0.45	Diesel	Fleet Avg	0.35	3.21	4.36	0.01	-	0.03	0.03	-	0.03	0.03	568.31	0.02	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 5

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Daily Emissions (lb/day) ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	2029	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.14	2.70	2.90	0.01	-	0.02	0.02	-	0.02	0.02	553.5	0.02	0.00
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	2029	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.35	1.83	18.30	0.03	-	0.07	0.07	-	0.07	0.07	3713.9	0.15	0.03
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	2029	Excavators	Excavators	2	15.0	36	0.38	Diesel	Fleet Avg	0.32	3.00	3.82	0.00	-	0.07	0.07	-	0.06	0.06	532.1	0.02	0.00
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	2029	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.30	2.29	1.60	0.00	-	0.09	0.09	-	0.08	0.08	306.0	0.01	0.00
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	2029	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.37	Diesel	Tier 4 Final	0.16	4.76	6.43	0.01	-	0.02	0.02	-	0.02	0.02	919.1	0.04	0.01
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.0	0.04	0.01
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	2030	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.14	2.70	2.89	0.01	-	0.02	0.02	-	0.02	0.02	553.5	0.02	0.00
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	2030	Cement and Mortar Mixers	Cement and Mortar Mixers	1	15.0	10	0.56	Diesel	Fleet Avg	0.10	0.78	0.60	0.00	-	0.03	0.03	-	0.03	0.03	105.6	0.00	0.00
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	2030	Generator Sets	Generator Sets	2	15.0	14	0.74	Diesel	Fleet Avg	0.37	2.92	1.95	0.01	-	0.11	0.11	-	0.10	0.10	389.4	0.02	0.00
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	2030	Pumps	Pumps	1	15.0	11	0.74	Diesel	Fleet Avg	0.15	1.14	0.80	0.00	-	0.04	0.04	-	0.04	0.04	153.0	0.01	0.00
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	2030	Welders	Welders	2	15.0	46	0.45	Diesel	Fleet Avg	0.51	4.48	6.01	0.01	-	0.06	0.06	-	0.06	0.06	778.0	0.03	0.01
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	2033	Aerial Lifts	Aerial Lifts	1	7.5	46	0.31	Diesel	Fleet Avg	0.03	0.67	0.72	0.00	-	0.00	0.00	-	0.00	0.00	138.4	0.01	0.00
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	2033	Air Compressors	Air Compressors	1	7.5	37	0.48	Diesel	Fleet Avg	0.11	0.96	1.37	0.00	-	0.01	0.01	-	0.01	0.01	166.9	0.01	0.00
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	2033	Pavers	Pavers	1	7.5	81	0.42	Diesel	Tier 4 Final	0.03	0.15	2.08	0.00	-	0.01	0.01	-	0.01	0.01	295.8	0.01	0.00
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	2033	Paving Equipment	Paving Equipment	1	7.5	89	0.36	Diesel	Tier 4 Final	0.03	0.14	1.96	0.00	-	0.01	0.01	-	0.01	0.01	279.5	0.01	0.00
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	2033	Rollers	Rollers	1	7.5	36	0.38	Diesel	Fleet Avg	0.09	0.77	0.90	0.00	-	0.02	0.02	-	0.02	0.02	132.8	0.01	0.00
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	2029	Air Compressors	Air Compressors	1	15.0	37	0.48	Diesel	Fleet Avg	0.26	1.99	2.78	0.00	-	0.03	0.03	-	0.03	0.03	333.8	0.01	0.00
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	2029	Concrete/Industrial Saws	Concrete/Industrial Saws	2	15.0	33	0.73	Diesel	Fleet Avg	0.57	5.25	6.78	0.01	-	0.08	0.08	-	0.07	0.07	915.3	0.04	0.01
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	1	15.0	96	0.40	Diesel	Tier 4 Final	0.06	0.33	4.70	0.01	-	0.01	0.01	-	0.01	0.01	671.4	0.03	0.01
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	2029	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.37	Diesel	Tier 4 Final	0.16	4.76	6.43	0.01	-	0.02	0.02	-	0.02	0.02	919.1	0.04	0.01
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.0	0.04	0.01
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	2030	Bore/Drill Rigs	Bore/Drill Rigs	2	15.0	83	0.50	Diesel	Tier 4 Final	0.14	0.71	10.16	0.01	-	0.03	0.03	-	0.03	0.03	1436.4	0.06	0.01
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	2030	Cranes	Cranes	3	15.0	367	0.29	Diesel	Tier 4 Final	0.53	2.75	27.45	0.05	-	0.11	0.11	-	0.11	0.11	5570.9	0.23	0.05
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	2030	Pumps	Pumps	3	15.0	11	0.74	Diesel	Fleet Avg	0.45	3.43	2.40	0.01	-	0.13	0.13	-	0.12	0.12	459.0	0.02	0.00
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.13	0.66	9.40	0.01	-	0.03	0.03	-	0.03	0.03	1342.8	0.05	0.01
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.0	0.04	0.01
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	2030	Aerial Lifts	Aerial Lifts	4	15.0	46	0.31	Diesel	Fleet Avg	0.28	5.39	5.79	0.01	-	0.04	0.04	-	0.03	0.03	1107.1	0.04	0.01
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	2030	Cranes	Cranes	4	15.0	367	0.29	Diesel	Tier 4 Final	0.70	3.66	36.60	0.07	-	0.14	0.14	-	0.14	0.14	7427.9	0.30	0.06
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	2030	Other Construction Equipment	Other Construction Equipme	2	15.0	82	0.42	Diesel	Tier 4 Final	0.11	0.59	8.43	0.01	-	0.02	0.02	-	0.02	0.02	1200.1	0.05	0.01
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.13	0.66	9.40	0.01	-	0.03	0.03	-	0.03	0.03	1342.8	0.05	0.01
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	2030	Welders	Welders	2	15.0	46	0.45	Diesel	Fleet Avg	0.51	4.48	6.01	0.01	-	0.06	0.06	-	0.06	0.06	778.0	0.03	0.01
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	2031	Aerial Lifts	Aerial Lifts	4	15.0	46	0.31	Diesel	Fleet Avg	0.28	5.38	5.78	0.01	-	0.03	0.03	-	0.03	0.03	1107.1	0.04	0.01
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	2031	Air Compressors	Air Compressors	4	15.0	37	0.48	Diesel	Fleet Avg	0.95	7.77	11.03	0.02	-	0.09	0.09	-	0.09	0.09	1335.2	0.05	0.01
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	2031	Cranes	Cranes	4	15.0	367	0.29	Diesel	Tier 4 Final	0.70	3.66	36.60	0.07	-	0.14	0.14	-	0.14	0.14	7427.9	0.30	0.06
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	2031	Other Construction Equipment	Other Construction Equipme	2	15.0	82	0.42	Diesel	Tier 4 Final	0.11	0.59	8.43	0.01	-	0.02	0.02	-	0.02	0.02	1200.1	0.05	0.01
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	2031	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.13	0.66	9.40	0.01	-	0.03	0.03	-	0.03	0.03	1342.8	0.05	0.01
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	2031	Welders	Welders	2	15.0	46	0.45	Diesel	Fleet Avg	0.49	4.44	5.99	0.01	-	0.05	0.05	-	0.05	0.05	778.0	0.03	0.01
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	2032	Aerial Lifts	Aerial Lifts	1	15.0	46	0.31	Diesel	Fleet Avg	0.07	1.35	1.44	0.00	-	0.01	0.01	-	0.01	0.01	276.8	0.01	0.00
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	2032	Air Compressors	Air Compressors	1	15.0	37	0.48	Diesel	Fleet Avg	0.23	1.93	2.75	0.00	-	0.02	0.02	-	0.02	0.02	333.8	0.01	0.00
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	2032	Pavers	Pavers	1	15.0	81	0.42	Diesel	Tier 4 Final	0.06	0.29	4.16	0.01	-	0.01	0.01	-	0.01	0.01	591.6	0.02	0.00
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	2032	Paving Equipment	Paving Equipment	1	15.0	89	0.36	Diesel	Tier 4 Final	0.05	0.28	3.92	0.01	-	0.01	0.01	-	0.01	0.01	559.0	0.02	0.00
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	2032	Rollers	Rollers	1	15.0	36	0.38	Diesel	Fleet Avg	0.19	1.54	1.81	0.00	-	0.05	0.05	-	0.04	0.04	265.6	0.01	0.00
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Trenchers	Trenchers	1	7.5	40	0.50	Diesel	Fleet Avg	0.11	1.07	1.27	0.00	-	0.02	0.02	-	0.02	0.02	194.5	0.01	0.00
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Skid Steer Loaders	Skid Steer Loaders	1	7.5	71	0.37	Diesel	Tier 4 Final	0.04	1.19	1.61	0.00	-	0.00	0.00	-	0.00	0.00	229.8	0.01	0.00
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	1	7.5	84	0.37	Diesel	Tier 4 Final	0.03	0.13	1.90	0.00	-	0.01	0.01	-	0.01	0.01	272.0	0.01	0.00
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Cranes	Cranes	1	7.5	367	0.29	Diesel	Tier 4 Final	0.09	0.46	4.58	0.01	-	0.02	0.02	-	0.02	0.02	928.5	0.04	0.01
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Pumps	Pumps	1	7.5	11	0.74	Diesel	Fleet Avg	0.07	0.57	0.40	0.00	-	0.02	0.02	-	0.02	0.02	76.5	0.00	0.00
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	1	7.5	84	0.37	Diesel	Tier 4 Final	0.03	0.13	1.90	0.00	-	0.01	0.01	-	0.01	0.01	272.0	0.01	0.00
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Aerial Lifts	Aerial Lifts	1	7.5	46	0.31	Diesel	Fleet Avg	0.03	0.67	0.72	0.00	-	0.00	0.00	-	0.00	0.00	138.4	0.01	0.00
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Cranes	Cranes	1	7.5	367	0.29	Diesel	Tier 4 Final	0.09	0.46	4.58	0.01	-	0.02	0.02	-	0.02	0.02	928.5	0.04	0.01
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Rough Terrain Forklifts	Rough Terrain Forklifts	1	7.5	96	0.40	Diesel	Tier 4 Final	0.03	0.17	2.35	0.00	-	0.01	0.01	-	0.01	0.01	335.7	0.01	0.00
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Welders	Welders	1	7.5	46	0.45	Diesel	Fleet Avg	0.12	1.08	1.49	0.00	-	0.01	0.01	-	0.01	0.01	194.5	0.01	0.00
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Air Compressors	Air Compressors	1	7.5	37	0.48	Diesel	Fleet Avg	0.11	0.95	1.37	0.00	-	0.01	0.01	-	0.01	0.01	166.9	0.01	0.00
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Generator Sets	Generator Sets	1	7.5	14	0.74	Diesel	Fleet Avg	0.09	0.73	0.49	0.00	-	0.03	0.03	-	0.03	0.03	97.3	0.00	0.00
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Skid Steer Loaders	Skid Steer Loaders	1	7.5	71	0.37	Diesel	Tier 4 Final	0.04	1.19	1.61	0.00	-	0.00	0.00	-	0.00	0.00	229.8	0.01	0.00
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Concrete/Industrial Saws	Concrete/Industrial Saws	1	7.5	33	0.73	Diesel	Fleet Avg	0.13	1.27	1.68	0.00	-	0.01	0.01	-	0.01	0.01	228.5	0.01	0.00
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Excavators	Excavators	3	7.5	36	0.38	Diesel	Fleet Avg	0.20	2.22	2.81	0.00	-	0.03	0.03	-	0.03	0.03	399.1	0.02	0.00
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Rubber Tired Dozers	Rubber Tired Dozers	2	7.5	367	0.40	Diesel	Tier 4 Final	0.24	1.26	12.62	0.02	-	0.05	0.05	-	0.05	0.05	2584.7	0.10	0.02
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Rubber Tired Dozers	Rubber Tired Dozers	3	7.5	367	0.40	Diesel	Tier 4 Final	0.36	1.89	18.93	0.04	-	0.07	0.07	-	0.07	0.07	3877.1	0.16	0.03
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	4	7.5	84	0.37	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.0	0.04	0.01
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Excavators	Excavators	2	7.5	36	0.38	Diesel	Fleet Avg	0.13	1.48	1.88	0.00	-	0.02	0.02	-	0.02	0.02	266.0	0.01	0.00
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Graders	Graders	1	7.5	148	0.41	Diesel	Tier 4 Final	0.05	0.26	3.71	0.00	-	0.01	0.01	-	0.01	0.01	532.8	0.02	0.00
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Rubber Tired Dozers	Rubber Tired Dozers	1	7.5	367	0.40	Diesel	Tier 4 Final	0.12	0.63	6.31	0.01	-	0.02	0.02	-	0.02	0.02	1292.4	0.05	0.01
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Scrapers	Scrapers	2	7.5	423	0.48	Diesel	Tier 4 Final	0.34	1.75	17.46	0.03	-	0.07	0.07	-	0.07	0.07	3548.7	0.14	0.03
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	7.5	84	0.37	Diesel	Tier 4 Final	0.05	0.27	3.80	0.01	-	0.01	0.01	-	0.01	0.01	544.0	0.02	0.00
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Cranes	Cranes	1	7.5	367	0.29	Diesel	Tier 4 Final	0.09	0.46	4.58	0.01	-	0.02	0.02	-	0.02	0.02	928.5	0.04	0.01
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Forklifts	Forklifts	3	7.5	82	0.20	Diesel	Tier 4 Final	0.04	0.21	3.01	0.00	-	0.01	0.01	-	0.01	0.01	428.8	0.02	0.00
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Generator Sets	Generator Sets	1	7.5	14	0.74	Diesel	Fleet Avg	0.09	0.73	0.49	0.00	-	0.03	0.03	-	0.03	0.03	97.4	0.00	0.00
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	3	7.5	84	0.37	Diesel	Tier 4 Final	0.08	0.40	5.70	0.01	-	0.02	0.02	-	0.02	0.02	816.0	0.03	0.01
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Welders	Welders	1	7.5	46	0.45	Diesel	Fleet Avg	0.12	1.10	1.49	0.00	-	0.01	0.01	-	0.01	0.01	194.5	0.01	0.00
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Pavers	Pavers	2	7.5	81	0.42	Diesel	Tier 4 Final	0.06	0.29	4.16	0.01	-	0.01	0.01	-	0.01	0.01	591.6	0.02	0.00
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Paving Equipment	Paving Equipment	2	7.5	89	0.36	Diesel	Tier 4 Final	0.05	0.28	3.92	0.01	-	0.01	0.01	-	0.01	0.01	559.0	0.02	0.00
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Rollers	Rollers	2	7.5	36	0.38	Diesel	Fleet Avg	0.17	1.52	1.78	0.00	-	0.04	0.04	-	0.04	0.04	265.6	0.01	0.00
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Air Compressors	Air Compressors	1	7.5	37	0.48	Diesel	Fleet Avg	0.11	0.95	1.37	0.00	-	0.01	0.01	-	0.01	0.01	166.9	0.01	0.00
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Aerial Lifts	Aerial Lifts	2	7.5	46	0.31	Diesel	Fleet Avg	0.07	1.35	1.44	0.00	-	0.01	0.01	-	0.01	0.01	276.8	0.01	0.00
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Rough Terrain Forklifts	Rough Terrain Forklifts	2	7.5	96	0.40	Diesel	Tier 4 Final	0.06	0.33	4.70	0.01	-	0.01	0.01	-	0.01	0.01	671.4	0.03	0.01
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Welders	Welders	2	7.5	46	0.45	Diesel	Fleet Avg	0.24	2.20	2.99	0.01	-	0.02	0.02	-	0.02	0.02	389.0	0.02	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 5

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Total Emissions (tons) ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	Total Emissions (metric tons) CO_2	CH_4	N_2O	CO_2e
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	2029	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.04	0.84	0.90	0.00	-	0.01	0.01	-	0.01	0.01	155.7	0.01	0.00	156.2
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	2029	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.11	0.57	5.67	0.01	-	0.02	0.02	-	0.02	0.02	1044.5	0.04	0.01	1048.0
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	2029	Excavators	Excavators	2	15.0	36	0.38	Diesel	Fleet Avg	0.10	0.93	1.18	0.00	-	0.02	0.02	-	0.02	0.02	149.6	0.01	0.00	150.1
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	2029	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.09	0.71	0.50	0.00	-	0.03	0.03	-	0.03	0.03	86.0	0.00	0.00	86.3
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	2029	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.37	Diesel	Tier 4 Final	0.05	1.48	1.99	0.00	-	0.01	0.01	-	0.01	0.01	258.5	0.01	0.00	259.4
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.03	0.17	2.36	0.00	-	0.01	0.01	-	0.01	0.01	306.0	0.01	0.00	307.0
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	2030	Aerial Lifts	Aerial Lifts	2	15.0	46	0.31	Diesel	Fleet Avg	0.05	1.05	1.12	0.00	-	0.01	0.01	-	0.01	0.01	194.6	0.01	0.00	195.3
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	2030	Cement and Mortar Mixers	Cement and Mortar Mixers	1	15.0	10	0.56	Diesel	Fleet Avg	0.04	0.30	0.23	0.00	-	0.01	0.01	-	0.01	0.01	37.1	0.00	0.00	37.2
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	2030	Generator Sets	Generator Sets	2	15.0	14	0.74	Diesel	Fleet Avg	0.14	1.13	0.75	0.00	-	0.04	0.04	-	0.04	0.04	136.9	0.01	0.00	137.4
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	2030	Pumps	Pumps	1	15.0	11	0.74	Diesel	Fleet Avg	0.06	0.44	0.31	0.00	-	0.02	0.02	-	0.02	0.02	53.8	0.00	0.00	54.0
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	2030	Welders	Welders	2	15.0	46	0.45	Diesel	Fleet Avg	0.20	1.74	2.33	0.00	-	0.02	0.02	-	0.02	0.02	273.5	0.01	0.00	274.4
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	2033	Aerial Lifts	Aerial Lifts	1	7.5	46	0.31	Diesel	Fleet Avg	0.00	0.02	0.02	0.00	-	0.00	0.00	-	0.00	0.00	4.0	0.00	0.00	4.0
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	2033	Air Compressors	Air Compressors	1	7.5	37	0.48	Diesel	Fleet Avg	0.00	0.03	0.04	0.00	-	0.00	0.00	-	0.00	0.00	4.8	0.00	0.00	4.8
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	2033	Pavers	Pavers	1	7.5	81	0.42	Diesel	Tier 4 Final	0.00	0.00	0.07	0.00	-	0.00	0.00	-	0.00	0.00	8.5	0.00	0.00	8.5
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	2033	Paving Equipment	Paving Equipment	1	7.5	89	0.36	Diesel	Tier 4 Final	0.00	0.00	0.06	0.00	-	0.00	0.00	-	0.00	0.00	8.0	0.00	0.00	8.0
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	2033	Rollers	Rollers	1	7.5	36	0.38	Diesel	Fleet Avg	0.00	0.02	0.03	0.00	-	0.00	0.00	-	0.00	0.00	3.8	0.00	0.00	3.8
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	2029	Air Compressors	Air Compressors	1	15.0	37	0.48	Diesel	Fleet Avg	0.02	0.16	0.23	0.00	-	0.00	0.00	-	0.00	0.00	24.7	0.00	0.00	24.8
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	2029	Concrete/Industrial Saws	Concrete/Industrial Saws	2	15.0	33	0.73	Diesel	Fleet Avg	0.05	0.43	0.55	0.00	-	0.01	0.01	-	0.01	0.01	67.7	0.00	0.00	67.9
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	1	15.0	96	0.40	Diesel	Tier 4 Final	0.01	0.03	0.38	0.00	-	0.00	0.00	-	0.00	0.00	49.6	0.00	0.00	49.8
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	2029	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.37	Diesel	Tier 4 Final	0.01	0.39	0.52	0.00	-	0.00	0.00	-	0.00	0.00	68.0	0.00	0.00	68.2
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.01	0.04	0.62	0.00	-	0.00	0.00	-	0.00	0.00	80.4	0.00	0.00	80.7
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	2030	Bore/Drill Rigs	Bore/Drill Rigs	2	15.0	83	0.50	Diesel	Tier 4 Final	0.01	0.04	0.63	0.00	-	0.00	0.00	-	0.00	0.00	80.8	0.00	0.00	81.1
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	2030	Cranes	Cranes	3	15.0	367	0.29	Diesel	Tier 4 Final	0.03	0.17	1.70	0.00	-	0.01	0.01	-	0.01	0.01	313.3	0.01	0.00	314.4
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	2030	Pumps	Pumps	3	15.0	11	0.74	Diesel	Fleet Avg	0.03	0.21	0.15	0.00	-	0.01	0.01	-	0.01	0.01	25.8	0.00	0.00	25.9
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.01	0.04	0.58	0.00	-	0.00	0.00	-	0.00	0.00	75.5	0.00	0.00	75.8
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.01	0.03	0.47	0.00	-	0.00	0.00	-	0.00	0.00	61.2	0.00	0.00	61.4
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	2030	Aerial Lifts	Aerial Lifts	4	15.0	46	0.31	Diesel	Fleet Avg	0.03	0.65	0.70	0.00	-	0.00	0.00	-	0.00	0.00	121.5	0.00	0.00	121.9
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	2030	Cranes	Cranes	4	15.0	367	0.29	Diesel	Tier 4 Final	0.09	0.44	4.43	0.01	-	0.02	0.02	-	0.02	0.02	815.4	0.03	0.01	818.1
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	2030	Other Construction Equipment	Other Construction Equipme	2	15.0	82	0.42	Diesel	Tier 4 Final	0.01	0.07	1.02	0.00	-	0.00	0.00	-	0.00	0.00	131.7	0.01	0.00	132.2
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.02	0.08	1.14	0.00	-	0.00	0.00	-	0.00	0.00	147.4	0.01	0.00	147.9
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	2030	Welders	Welders	2	15.0	46	0.45	Diesel	Fleet Avg	0.06	0.54	0.73	0.00	-	0.01	0.01	-	0.01	0.01	85.4	0.00	0.00	85.7
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	2031	Aerial Lifts	Aerial Lifts	4	15.0	46	0.31	Diesel	Fleet Avg	0.08	1.55	1.67	0.00	-	0.01	0.01	-	0.01	0.01	289.7	0.01	0.00	290.7
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	2031	Air Compressors	Air Compressors	4	15.0	37	0.48	Diesel	Fleet Avg	0.28	2.24	3.18	0.00	-	0.03	0.03	-	0.03	0.03	349.4	0.01	0.00	350.6
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	2031	Cranes	Cranes	4	15.0	367	0.29	Diesel	Tier 4 Final	0.20	1.06	10.56	0.02	-	0.04	0.04	-	0.04	0.04	1944.0	0.08	0.02	1950.7
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	2031	Other Construction Equipment	Other Construction Equipme	2	15.0	82	0.42	Diesel	Tier 4 Final	0.03	0.17	2.43	0.00	-	0.01	0.01	-	0.01	0.01	314.1	0.01	0.00	315.2
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	2031	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.04	0.19	2.71	0.00	-	0.01	0.01	-	0.01	0.01	351.4	0.01	0.00	352.7
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	2031	Welders	Welders	2	15.0	46	0.45	Diesel	Fleet Avg	0.14	1.28	1.73	0.00	-	0.02	0.02	-	0.01	0.01	203.6	0.01	0.00	204.3
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	2032	Aerial Lifts	Aerial Lifts	1	15.0	46	0.31	Diesel	Fleet Avg	0.00	0.03	0.03	0.00	-	0.00	0.00	-	0.00	0.00	5.9	0.00	0.00	5.9
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	2032	Air Compressors	Air Compressors	1	15.0	37	0.48	Diesel	Fleet Avg	0.01	0.05	0.06	0.00	-	0.00	0.00	-	0.00	0.00	7.1	0.00	0.00	7.1
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	2032	Pavers	Pavers	1	15.0	81	0.42	Diesel	Tier 4 Final	0.00	0.01	0.10	0.00	-	0.00	0.00	-	0.00	0.00	12.6	0.00	0.00	12.7
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	2032	Paving Equipment	Paving Equipment	1	15.0	89	0.36	Diesel	Tier 4 Final	0.00	0.01	0.09	0.00	-	0.00	0.00	-	0.00	0.00	11.9	0.00	0.00	12.0
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	2032	Rollers	Rollers	1	15.0	36	0.38	Diesel	Fleet Avg	0.00	0.04	0.04	0.00	-	0.00	0.00	-	0.00	0.00	5.7	0.00	0.00	5.7
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Trenchers	Trenchers	1	7.5	40	0.50	Diesel	Fleet Avg	0.00	0.04	0.05	0.00	-	0.00	0.00	-	0.00	0.00	6.8	0.00	0.00	6.8
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Skid Steer Loaders	Skid Steer Loaders	1	7.5	71	0.37	Diesel	Tier 4 Final	0.00	0.05	0.06	0.00	-	0.00	0.00	-	0.00	0.00	8.0	0.00	0.00	8.1
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	1	7.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.07	0.00	-	0.00	0.00	-	0.00	0.00	9.5	0.00	0.00	9.5
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Cranes	Cranes	1	7.5	367	0.29	Diesel	Tier 4 Final	0.00	0.02	0.24	0.00	-	0.00	0.00	-	0.00	0.00	43.8	0.00	0.00	44.0
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Pumps	Pumps	1	7.5	11	0.74	Diesel	Fleet Avg	0.00	0.03	0.02	0.00	-	0.00	0.00	-	0.00	0.00	3.6	0.00	0.00	3.6
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	1	7.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.10	0.00	-	0.00	0.00	-	0.00	0.00	12.8	0.00	0.00	12.9
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Aerial Lifts	Aerial Lifts	1	7.5	46	0.31	Diesel	Fleet Avg	0.00	0.00	0.00	0.00	-	0.00	0.00	-	0.00	0.00	0.4	0.00	0.00	0.4
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Cranes	Cranes	1	7.5	367	0.29	Diesel	Tier 4 Final	0.00	0.00	0.01	0.00	-	0.00	0.00	-	0.00	0.00	2.5	0.00	0.00	2.5
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Rough Terrain Forklifts	Rough Terrain Forklifts	1	7.5	96	0.40	Diesel	Tier 4 Final	0.00	0.00	0.01	0.00	-	0.00	0.00	-	0.00	0.00	0.9	0.00	0.00	0.9
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Welders	Welders	1	7.5	46	0.45	Diesel	Fleet Avg	0.00	0.00	0.00	0.00	-	0.00	0.00	-	0.00	0.00	0.5	0.00	0.00	0.5
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Air Compressors	Air Compressors	1	7.5	37	0.48	Diesel	Fleet Avg	0.00	0.01	0.01	0.00	-	0.00	0.00	-	0.00	0.00	1.6	0.00	0.00	1.6
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Generator Sets	Generator Sets	1	7.5	14	0.74	Diesel	Fleet Avg	0.00	0.01	0.01	0.00	-	0.00	0.00	-	0.00	0.00	0.9	0.00	0.00	0.9
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Skid Steer Loaders	Skid Steer Loaders	1	7.5	71	0.37	Diesel	Tier 4 Final	0.00	0.01	0.02	0.00	-	0.00	0.00	-	0.00	0.00	2.2	0.00	0.00	2.2
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Concrete/Industrial Saws	Concrete/Industrial Saws	1	7.5	33	0.73	Diesel	Fleet Avg	0.00	0.05	0.06	0.00	-	0.00	0.00	-	0.00	0.00	8.0	0.00	0.00	8.0
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Excavators	Excavators	3	7.5	36	0.38	Diesel	Fleet Avg	0.01	0.09	0.11	0.00	-	0.00	0.00	-	0.00	0.00	13.9	0.00	0.00	14.0
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Rubber Tired Dozers	Rubber Tired Dozers	2	7.5	367	0.40	Diesel	Tier 4 Final	0.01	0.05	0.49	0.00	-	0.00	0.00	-	0.00	0.00	90.3	0.00	0.00	90.6
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Rubber Tired Dozers	Rubber Tired Dozers	3	7.5	367	0.40	Diesel	Tier 4 Final	0.01	0.05	0.49	0.00	-	0.00	0.00	-	0.00	0.00	91.4	0.00	0.00	91.8
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	4	7.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.20	0.00	-	0.00	0.00	-	0.00	0.00	25.7	0.00	0.00	25.7
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Excavators	Excavators	2	7.5	36	0.38	Diesel	Fleet Avg	0.01	0.10	0.12	0.00	-	0.00	0.00	-	0.00	0.00	15.9	0.00	0.00	16.0
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Graders	Graders	1	7.5	148	0.41	Diesel	Tier 4 Final	0.00	0.02	0.25	0.00	-	0.00	0.00	-	0.00	0.00	31.9	0.00	0.00	32.0
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Rubber Tired Dozers	Rubber Tired Dozers	1	7.5	367	0.40	Diesel	Tier 4 Final	0.01	0.04	0.42	0.00	-	0.00	0.00	-	0.00	0.00	77.4	0.00	0.00	77.6
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Scrapers	Scrapers	2	7.5	423	0.48	Diesel	Tier 4 Final	0.02	0.12	1.15	0.00	-	0.00	0.00	-	0.00	0.00	212.5	0.01	0.00	213.2
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	7.5	84	0.37	Diesel	Tier 4 Final	0.00	0.02	0.25	0.00	-	0.00	0.00	-	0.00	0.00	32.6	0.00	0.00	32.7
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Cranes	Cranes	1	7.5	367	0.29	Diesel	Tier 4 Final	0.03	0.18	1.79	0.00	-	0.01	0.01	-	0.01	0.01	329.3	0.01	0.00	330.5
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Forklifts	Forklifts	3	7.5	82	0.20	Diesel	Tier 4 Final	0.02	0.08	1.18	0.00	-	0.00	0.00	-	0.00	0.00	152.1	0.01	0.00	152.6
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Generator Sets	Generator Sets	1	7.5	14	0.74	Diesel	Fleet Avg	0.04	0.29	0.19	0.00	-	0.01	0.01	-	0.01	0.01	34.5	0.00	0.00	34.6
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	3	7.5	84	0.37	Diesel	Tier 4 Final	0.03	0.16	2.23	0.00	-	0.01	0.01	-	0.01	0.01	289.4	0.01	0.00	290.4
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Welders	Welders	1	7.5	46	0.45	Diesel	Fleet Avg	0.05	0.43	0.58	0.00	-	0.00	0.00	-	0.00	0.00	69.0	0.00	0.00	69.2
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Pavers	Pavers	2	7.5	81	0.42	Diesel	Tier 4 Final	0.00	0.01	0.11	0.00	-	0.00	0.00	-	0.00	0.00	14.0	0.00	0.00	14.0
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Paving Equipment	Paving Equipment	2	7.5	89	0.36	Diesel	Tier 4 Final	0.00	0.01	0.10	0.00	-	0.00	0.00	-	0.00	0.00	13.2	0.00	0.00	13.2
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Rollers	Rollers	2	7.5	36	0.38	Diesel	Fleet Avg	0.00	0.04	0.05	0.00	-	0.00	0.00	-	0.00	0.00	6.3	0.00	0.00	6.3
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Air Compressors	Air Compressors	1	7.5	37	0.48	Diesel	Fleet Avg	0.00	0.04	0.05	0.00	-	0.00	0.00	-	0.00	0.00	5.9	0.00	0.00	5.9
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Aerial Lifts	Aerial Lifts	2	7.5	46	0.31	Diesel	Fleet Avg	0.02	0.42	0.45	0.00	-	0.00	0.00	-	0.00	0.00	78.6	0.00	0.00	78.9
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Rough Terrain Forklifts	Rough Terrain Forklifts	2	7.5	96	0.40	Diesel	Tier 4 Final	0.02	0.10	1.47	0.00	-	0.00	0.00	-	0.00	0.00	190.6	0.01	0.00	191.3
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Welders	Welders	2	7.5	46	0.45	Diesel	Fleet Avg	0.07	0.69	0.93	0.00	-	0.01	0.01	-	0.01	0.01	110.5	0.00	0.00	110.8

Sepulveda Transit Corridor Project - ALTERNATIVE 5

OFFROAD EQUIPMENT (ONSITE)[1]

														Emission Factor (g/bhp-hr)[3]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	2028	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.75	0.02	0.00
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	2028	Cement and Mortar Mixers	Cement and Mortar Mixers	2	15.0	10	0.56	Diesel	Fleet Avg	0.55	4.20	3.26	0.01	-	0.16	0.16	-	0.15	0.15	570.33	0.02	0.00
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	2028	Generator Sets	Generator Sets	2	15.0	14	0.74	Diesel	Fleet Avg	0.54	4.29	2.85	0.01	-	0.17	0.17	-	0.16	0.16	568.30	0.02	0.00
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	2028	Other General Industrial Equip	Other General Industrial Eq	1	15.0	35	0.34	Diesel	Fleet Avg	0.41	3.45	4.55	0.01	-	0.08	0.08	-	0.08	0.08	587.80	0.02	0.00
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	2028	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.56	4.27	2.98	0.01	-	0.17	0.17	-	0.16	0.16	568.34	0.02	0.00
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	2028	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.60	0.02	0.00
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.57	0.02	0.00
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	2028	Welders	Welders	2	15.0	46	0.45	Diesel	Fleet Avg	0.41	3.37	4.43	0.01	-	0.06	0.06	-	0.06	0.06	568.31	0.02	0.00
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Cranes	Cranes	1	15.0	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.75	0.02	0.00
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.60	0.02	0.00
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.37	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.61	0.02	0.00
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.57	0.02	0.00
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Welders	Welders	2	15.0	46	0.45	Diesel	Fleet Avg	0.41	3.37	4.43	0.01	-	0.06	0.06	-	0.06	0.06	568.31	0.02	0.00
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Cranes	Cranes	1	15.0	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.75	0.02	0.00
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.60	0.02	0.00
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.37	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.61	0.02	0.00
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.57	0.02	0.00
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Welders	Welders	2	15.0	46	0.45	Diesel	Fleet Avg	0.41	3.37	4.43	0.01	-	0.06	0.06	-	0.06	0.06	568.31	0.02	0.00

Notes:

1. Data based on alternative specific information.
2. Horsepower and load factor based on default values for equipment in CalEEMod.
3. In accordance with Metro's Green Construction Policy, all off-road equipment equal to or greater than 50 HP would have emission factors for Tier 4 Final equipment, off-road equipment less than 50 HP would use fleet average emission factors from CalEEMod.

EXH = Exhaust

FD = Fugitive Dust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 5

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Daily Emissions (lb/day)												
															ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	2028	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.35	1.83	18.30	0.03	-	0.07	0.07	-	0.07	0.07	3714.9	0.15	0.03
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	2028	Cement and Mortar Mixers	Cement and Mortar Mixers	2	15.0	10	0.56	Diesel	Fleet Avg	0.20	1.55	1.21	0.00	-	0.06	0.06	-	0.06	0.06	211.2	0.01	0.00
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	2028	Generator Sets	Generator Sets	2	15.0	14	0.74	Diesel	Fleet Avg	0.37	2.94	1.95	0.01	-	0.12	0.12	-	0.11	0.11	389.4	0.02	0.00
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	2028	Other General Industrial Equip	Other General Industrial Eq	1	15.0	35	0.34	Diesel	Fleet Avg	0.16	1.36	1.79	0.00	-	0.03	0.03	-	0.03	0.03	231.3	0.01	0.00
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	2028	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.30	2.30	1.60	0.00	-	0.09	0.09	-	0.08	0.08	306.0	0.01	0.00
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	2028	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.13	0.66	9.40	0.01	-	0.03	0.03	-	0.03	0.03	1342.5	0.05	0.01
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.6	0.04	0.01
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	2028	Welders	Welders	2	15.0	46	0.45	Diesel	Fleet Avg	0.56	4.61	6.07	0.01	-	0.09	0.09	-	0.08	0.08	778.1	0.03	0.01
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Cranes	Cranes	1	15.0	367	0.29	Diesel	Tier 4 Final	0.18	0.92	9.15	0.02	-	0.04	0.04	-	0.04	0.04	1857.5	0.08	0.02
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.13	0.66	9.40	0.01	-	0.03	0.03	-	0.03	0.03	1342.5	0.05	0.01
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.37	Diesel	Tier 4 Final	0.16	4.76	6.43	0.01	-	0.02	0.02	-	0.02	0.02	918.4	0.04	0.01
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.6	0.04	0.01
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Welders	Welders	2	15.0	46	0.45	Diesel	Fleet Avg	0.56	4.61	6.07	0.01	-	0.09	0.09	-	0.08	0.08	778.1	0.03	0.01
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Cranes	Cranes	1	15.0	367	0.29	Diesel	Tier 4 Final	0.18	0.92	9.15	0.02	-	0.04	0.04	-	0.04	0.04	1857.5	0.08	0.02
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.13	0.66	9.40	0.01	-	0.03	0.03	-	0.03	0.03	1342.5	0.05	0.01
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.37	Diesel	Tier 4 Final	0.16	4.76	6.43	0.01	-	0.02	0.02	-	0.02	0.02	918.4	0.04	0.01
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.10	0.53	7.61	0.01	-	0.02	0.02	-	0.02	0.02	1088.6	0.04	0.01
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Welders	Welders	2	15.0	46	0.45	Diesel	Fleet Avg	0.56	4.61	6.07	0.01	-	0.09	0.09	-	0.08	0.08	778.1	0.03	0.01

Notes:

1. Data based on alternative specific information.
2. Horsepower and load factor based on default values for equipment in CalEEMod.
3. In accordance with Metro's Green Construction Policy, all off-road equipment equal to or greater than 50 HP would have emission factors for Tier 4 Final equipment, off-road equipment less than 50 HP would use fleet average emission factors from CalEEMod.

EXH = Exhaust

FD = Fugitive Dust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 5

OFFROAD EQUIPMENT (ONSITE)[1]

														Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	2028	Cranes	Cranes	2	15.0	367	0.29	Diesel	Tier 4 Final	0.28	1.43	14.32	0.03	-	0.06	0.06	-	0.06	0.06	2637.1	0.11	0.02	2646.2
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	2028	Cement and Mortar Mixers	Cement and Mortar Mixers	2	15.0	10	0.56	Diesel	Fleet Avg	0.16	1.22	0.94	0.00	-	0.05	0.05	-	0.04	0.04	150.0	0.01	0.00	150.5
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	2028	Generator Sets	Generator Sets	2	15.0	14	0.74	Diesel	Fleet Avg	0.29	2.30	1.53	0.00	-	0.09	0.09	-	0.08	0.08	276.4	0.01	0.00	277.4
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	2028	Other General Industrial Equip	Other General Industrial Eq	1	15.0	35	0.34	Diesel	Fleet Avg	0.13	1.06	1.40	0.00	-	0.03	0.03	-	0.02	0.02	164.2	0.01	0.00	164.8
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	2028	Pumps	Pumps	2	15.0	11	0.74	Diesel	Fleet Avg	0.24	1.80	1.26	0.00	-	0.07	0.07	-	0.07	0.07	217.2	0.01	0.00	218.0
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	2028	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.10	0.52	7.35	0.01	-	0.02	0.02	-	0.02	0.02	953.0	0.04	0.01	956.3
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.08	0.42	5.95	0.01	-	0.02	0.02	-	0.02	0.02	772.7	0.03	0.01	775.4
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	2028	Welders	Welders	2	15.0	46	0.45	Diesel	Fleet Avg	0.44	3.61	4.75	0.01	-	0.07	0.07	-	0.06	0.06	552.3	0.02	0.00	554.2
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Cranes	Cranes	1	15.0	367	0.29	Diesel	Tier 4 Final	0.26	1.36	13.60	0.03	-	0.05	0.05	-	0.05	0.05	2504.9	0.10	0.02	2513.5
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.19	0.98	13.97	0.02	-	0.04	0.04	-	0.04	0.04	1810.4	0.07	0.01	1816.6
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.37	Diesel	Tier 4 Final	0.23	7.08	9.56	0.01	-	0.03	0.03	-	0.03	0.03	1238.6	0.05	0.01	1242.8
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.15	0.79	11.31	0.01	-	0.03	0.03	-	0.03	0.03	1468.0	0.06	0.01	1473.0
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Welders	Welders	2	15.0	46	0.45	Diesel	Fleet Avg	0.83	6.86	9.02	0.01	-	0.13	0.13	-	0.12	0.12	1049.2	0.04	0.01	1052.8
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Cranes	Cranes	1	15.0	367	0.29	Diesel	Tier 4 Final	0.22	1.15	11.46	0.02	-	0.04	0.04	-	0.04	0.04	2109.7	0.09	0.02	2116.9
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Rough Terrain Forklifts	Rough Terrain Forklifts	2	15.0	96	0.40	Diesel	Tier 4 Final	0.16	0.83	11.77	0.02	-	0.03	0.03	-	0.03	0.03	1524.8	0.06	0.01	1530.1
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Skid Steer Loaders	Skid Steer Loaders	2	15.0	71	0.37	Diesel	Tier 4 Final	0.20	5.96	8.05	0.01	-	0.02	0.02	-	0.02	0.02	1043.2	0.04	0.01	1046.8
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	15.0	84	0.37	Diesel	Tier 4 Final	0.13	0.67	9.52	0.01	-	0.03	0.03	-	0.03	0.03	1236.4	0.05	0.01	1240.6
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Welders	Welders	2	15.0	46	0.45	Diesel	Fleet Avg	0.70	5.78	7.60	0.01	-	0.11	0.11	-	0.10	0.10	883.7	0.04	0.01	886.7

Notes:

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Sepulveda Transit Corridor Project - ALTERNATIVE 5

Demo Dust Control Reduction 36%

DEMOLITION FUGITIVE DUST (ONSITE)

								Demolition EF (lb pollutant/ton waste)[1]						Daily Emissions (lb/day)[2]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	Total Demo Debris Weight (tons)	Daily Demo Debris Weight (tons/day)	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	4543.1	57.5	0.0217	-	0.0217	0.0033	-	0.0033	0.80	-	0.80	0.12	-	0.12	0.03	-	0.03	0.00	-	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	4/15/2030	6/11/2032	7	789	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	6/12/2032	11/28/2033	7	535	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	12/1/2033	7/13/2034	7	225	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	3/1/2029	2/14/2033	7	1447	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Slabs, Walkways, Plenum	8/23/2032	12/14/2034	7	844	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	4/3/2029	2/19/2032	7	1053	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Slabs, Walkways, Plenum	9/23/2031	5/18/2033	7	604	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	8042.1	105.8	0.0217	-	0.0217	0.0033	-	0.0033	1.47	-	1.47	0.22	-	0.22	0.06	-	0.06	0.01	-	0.01
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	10/29/2030	12/24/2030	6	49	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	12/20/2031	1/20/2032	6	27	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Paving	7/19/2032	7/14/2033	6	310	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	6056.2	108.1	0.0217	-	0.0217	0.0033	-	0.0033	1.50	-	1.50	0.23	-	0.23	0.04	-	0.04	0.01	-	0.01
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	1250.3	6.0	0.0217	-	0.0217	0.0033	-	0.0033	0.08	-	0.08	0.01	-	0.01	0.01	-	0.01	0.00	-	0.00
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-TBM Pass Through-Maintenance	8/1/2030	9/30/2030	6	52	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	1752.5	8.5	0.0217	-	0.0217	0.0033	-	0.0033	0.12	-	0.12	0.02	-	0.02	0.01	-	0.01	0.00	-	0.00
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-TBM Pass Through-Maintenance	3/1/2031	4/30/2031	6	52	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	11073.0	52.7	0.0217	-	0.0217	0.0033	-	0.0033	0.73	-	0.73	0.11	-	0.11	0.08	-	0.08	0.01	-	0.01
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-TBM Pass Through-Maintenance	10/1/2031	11/30/2031	6	52	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 5

Demo Dust Control Reduction 36%

DEMOLITION FUGITIVE DUST (ONSITE)

								Demolition EF (lb pollutant/ton waste)[1]						Daily Emissions (lb/day)[2]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	Total Demo Debris Weight (tons)	Daily Demo Debris Weight (tons/day)	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	756.0	3.6	0.0217	-	0.0217	0.0033	-	0.0033	0.05	-	0.05	0.01	-	0.01	0.01	-	0.01	0.00	-	0.00
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	2877.4	14.8	0.0217	-	0.0217	0.0033	-	0.0033	0.20	-	0.20	0.03	-	0.03	0.02	-	0.02	0.00	-	0.00
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Mobilize/Launch Reach 2 TBM	10/1/2028	1/30/2029	7	122	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Retrieve/Demob Reach 3 TBM	2/19/2032	5/18/2032	7	90	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	2342.8	11.2	0.0217	-	0.0217	0.0033	-	0.0033	0.15	-	0.15	0.02	-	0.02	0.02	-	0.02	0.00	-	0.00
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2030	10/31/2030	6	52	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	273.7	1.3	0.0217	-	0.0217	0.0033	-	0.0033	0.02	-	0.02	0.00	-	0.00	0.00	-	0.00	0.00	-	0.00
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2029	10/31/2029	6	52	10	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	1731.9	10.6	0.0217	-	0.0217	0.0033	-	0.0033	0.15	-	0.15	0.02	-	0.02	0.01	-	0.01	0.00	-	0.00
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	19035.3	247.2	0.0217	-	0.0217	0.0033	-	0.0033	3.43	-	3.43	0.52	-	0.52	0.13	-	0.13	0.02	-	0.02
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Grading	3/1/2032	7/31/2032	6	132	10	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Paving	12/1/2034	1/30/2035	6	52	10	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	-	-	0.0217	-	0.0217	0.0033	-	0.0033	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

1. Emission factor based on CalEEMod default value.
2. Emissions account for application of water 2 times per day during demolition activities.

FD = Fugitive Dust

EXH = Exhaust

Sepulveda Transit Corridor Project - ALTERNATIVE 5

Dust Control Reduction 74%

TRUCK LOADING FUGITIVE DUST (ONSITE)

										Truck Loading EF (lb pollutant/ton throughput)[2]						Daily Emissions (lb/day)[3]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	Total Soil Volume (CY)	Soil Density (tons/CY)[1]	Total Throughput (tons)	Daily Throughput (tons)	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	75000	1.26	94812	912	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.026	-	0.026	0.004	-	0.004	0.001	-	0.001	0.000	-	0.000
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	950000	1.26	1200958	1524	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.044	-	0.044	0.007	-	0.007	0.017	-	0.017	0.003	-	0.003
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	4/15/2030	6/11/2032	7	789	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	6/12/2032	11/28/2033	7	535	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	12/1/2033	7/13/2034	7	225	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	1921000	1.26	2428463	1664	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.048	-	0.048	0.007	-	0.007	0.035	-	0.035	0.005	-	0.005
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	3/1/2029	2/14/2033	7	1447	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Slabs, Walkways, Plenum	8/23/2032	12/14/2034	7	844	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	29000	1.26	36661	346	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.010	-	0.010	0.002	-	0.002	0.001	-	0.001	0.000	-	0.000
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	1300000	1.26	1643416	1475	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.043	-	0.043	0.006	-	0.006	0.024	-	0.024	0.004	-	0.004
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	4/3/2029	2/19/2032	7	1053	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Slabs, Walkways, Plenum	9/23/2031	5/18/2033	7	604	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	69707	1.26	88121	339	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.010	-	0.010	0.001	-	0.001	0.001	-	0.001	0.000	-	0.000
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	10/29/2030	12/24/2030	6	49	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	12/20/2031	1/20/2032	6	27	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Paving	7/19/2032	7/14/2033	6	310	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	150000	1.26	189625	3647	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.105	-	0.105	0.016	-	0.016	0.003	-	0.003	0.000	-	0.000
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	120000	1.26	151700	476	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.014	-	0.014	0.002	-	0.002	0.002	-	0.002	0.000	-	0.000
Metro E Line Stn_U-Alt5-TBM Pass Through-Maintenance	8/1/2030	9/30/2030	6	52	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	130000	1.26	164342	528	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.015	-	0.015	0.002	-	0.002	0.002	-	0.002	0.000	-	0.000
Santa Monica Stn_U-Alt5-TBM Pass Through-Maintenance	3/1/2031	4/30/2031	6	52	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	220000	1.26	278117	872	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.025	-	0.025	0.004	-	0.004	0.004	-	0.004	0.001	-	0.001
D Line Wilshire-Westwood Stn_U-Alt5-TBM Pass Through-Maintenance	10/1/2031	11/30/2031	6	52	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 5

Dust Control Reduction 74%

TRUCK LOADING FUGITIVE DUST (ONSITE)

										Truck Loading EF (lb pollutant/ton throughput)[2]						Daily Emissions (lb/day)[3]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	Total Soil Volume (CY)	Soil Density (tons/CY)[1]	Total Throughput (tons)	Daily Throughput (tons)	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	185000	1.26	233871	586	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.017	-	0.017	0.003	-	0.003	0.003	-	0.003	0.001	-	0.001
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	140000	1.26	176983	423	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.012	-	0.012	0.002	-	0.002	0.003	-	0.003	0.000	-	0.000
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Mobilize/Launch Reach 2 TBM	10/1/2028	1/30/2029	7	122	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Retrieve/Demob Reach 3 TBM	2/19/2032	5/18/2032	7	90	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	247100	1.26	312375	758	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.022	-	0.022	0.003	-	0.003	0.005	-	0.005	0.001	-	0.001
Sepulveda-Metro G Line Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2030	10/31/2030	6	52	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	140800	1.26	177995	428	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.012	-	0.012	0.002	-	0.002	0.003	-	0.003	0.000	-	0.000
Sherman Way Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2029	10/31/2029	6	52	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	565	1.26	714	6	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.000	-	0.000	0.000	-	0.000	0.000	-	0.000	0.000	-	0.000
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	158	1.26	200	3	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.000	-	0.000	0.000	-	0.000	0.000	-	0.000	0.000	-	0.000
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Grading	3/1/2032	7/31/2032	6	132	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Paving	12/1/2034	1/30/2035	6	52	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

1. Conversion factor based on CalEEMod default value.
2. Emission factor based on CalEEMod default value.
3. Emissions account for dust control reduction from water application 3 times per day.

FD = Fugitive Dust

EXH = Exhaust

Sepulveda Transit Corridor Project - ALTERNATIVE 5

Dust Control Reduction 74%

BULLDOZING FUGITIVE DUST (ONSITE)

									Bulldozing EF (lb/hr)[1]						Daily Emissions (lb/day)[2,3]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	Air Compressors	1	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	Concrete/Industrial Saws	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	Rough Terrain Forklifts	1	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	Skid Steer Loaders	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	Tractors/Loaders/Backhoes	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	Bore/Drill Rigs	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	Cranes	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	Pumps	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	Rough Terrain Forklifts	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	Tractors/Loaders/Backhoes	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	Cranes	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	Excavators	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	Rough Terrain Forklifts	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	Tractors/Loaders/Backhoes	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	Cranes	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	Generator Sets	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	Pumps	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	Rough Terrain Forklifts	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	Cranes	4	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	Generator Sets	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	Pumps	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	Tractors/Loaders/Backhoes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	Welders	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	Aerial Lifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	Cranes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	Rough Terrain Forklifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	Tunnel Boring Machine (TBM	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	Tractors/Loaders/Backhoes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	Cranes	4	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	Generator Sets	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	Pumps	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	Tractors/Loaders/Backhoes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	Welders	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	4/15/2030	6/11/2032	7	789	20	Aerial Lifts	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	4/15/2030	6/11/2032	7	789	20	Air Compressors	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	4/15/2030	6/11/2032	7	789	20	Rollers	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	6/12/2032	11/28/2033	7	535	20	Aerial Lifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	6/12/2032	11/28/2033	7	535	20	Cement and Mortar Mixers	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	12/1/2033	7/13/2034	7	225	20	Aerial Lifts	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	12/1/2033	7/13/2034	7	225	20	Air Compressors	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	12/1/2033	7/13/2034	7	225	20	Generator Sets	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	12/1/2033	7/13/2034	7	225	20	Welders	3	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	Cranes	4	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	Generator Sets	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	Pumps	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	Tractors/Loaders/Backhoes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	Welders	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	Aerial Lifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	Cranes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	Rough Terrain Forklifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	Tunnel Boring Machine (TBM	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	Tractors/Loaders/Backhoes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	Cranes	4	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	Generator Sets	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	Pumps	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	Tractors/Loaders/Backhoes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	Welders	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	3/1/2029	2/14/2033	7	1447	20	Aerial Lifts	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	3/1/2029	2/14/2033	7	1447	20	Air Compressors	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	3/1/2029	2/14/2033	7	1447	20	Rollers	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Slabs, Walkways, Plenum	8/23/2032	12/14/2034	7	844	20	Aerial Lifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Slabs, Walkways, Plenum	8/23/2032	12/14/2034	7	844	20	Cement and Mortar Mixers	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 5

Dust Control Reduction 74%

BULLDOZING FUGITIVE DUST (ONSITE)

									Bulldozing EF (lb/hr)[1]						Daily Emissions (lb/day)[2,3]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	Aerial Lifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	Air Compressors	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	Generator Sets	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	Rough Terrain Forklifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	Air Compressors	1	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	Concrete/Industrial Saws	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	Rough Terrain Forklifts	1	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	Skid Steer Loaders	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	Tractors/Loaders/Backhoes	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	Bore/Drill Rigs	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	Cranes	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	Pumps	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	Rough Terrain Forklifts	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	Tractors/Loaders/Backhoes	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	Cranes	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	Excavators	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	Rough Terrain Forklifts	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	Tractors/Loaders/Backhoes	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	Cranes	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	Generator Sets	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	Pumps	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	Rough Terrain Forklifts	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	Cranes	4	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	Generator Sets	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	Pumps	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	Tractors/Loaders/Backhoes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	Welders	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	Aerial Lifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	Cranes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	Rough Terrain Forklifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	Tunnel Boring Machine (TBM	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	Tractors/Loaders/Backhoes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	Cranes	4	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	Generator Sets	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	Pumps	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	Tractors/Loaders/Backhoes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	Welders	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	4/3/2029	2/19/2032	7	1053	20	Aerial Lifts	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	4/3/2029	2/19/2032	7	1053	20	Air Compressors	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	4/3/2029	2/19/2032	7	1053	20	Rollers	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Slabs, Walkways, Plenum	9/23/2031	5/18/2033	7	604	20	Aerial Lifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Slabs, Walkways, Plenum	9/23/2031	5/18/2033	7	604	20	Cement and Mortar Mixers	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	Aerial Lifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	Air Compressors	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	Generator Sets	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	Rough Terrain Forklifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	Air Compressors	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	Concrete/Industrial Saws	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	Rough Terrain Forklifts	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	Skid Steer Loaders	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	Tractors/Loaders/Backhoes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	Bore/Drill Rigs	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	Cranes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	Pumps	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	Rough Terrain Forklifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	Tractors/Loaders/Backhoes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	Cranes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	Excavators	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	Rough Terrain Forklifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	Tractors/Loaders/Backhoes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	Cranes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	Generator Sets	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	Pumps	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	Rough Terrain Forklifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	Aerial Lifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	Generator Sets	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	Rough Terrain Forklifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	Welders	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 5

Dust Control Reduction 74%

BULLDOZING FUGITIVE DUST (ONSITE)

									Bulldozing EF (lb/hr)[1]						Daily Emissions (lb/day)[2,3]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	Aerial Lifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	Bore/Drill Rigs	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	Cranes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	Pumps	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	Rollers	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	Rough Terrain Forklifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	Aerial Lifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	Cranes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	Pumps	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	Rough Terrain Forklifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	Aerial Lifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	Cranes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	Pumps	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	Rough Terrain Forklifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	10/29/2030	12/24/2030	6	49	20	Aerial Lifts	4	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	10/29/2030	12/24/2030	6	49	20	Cranes	4	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	10/29/2030	12/24/2030	6	49	20	Rough Terrain Forklifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	Aerial Lifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	Cranes	4	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	Excavators	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	Other Construction Equipme	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	12/20/2031	1/20/2032	6	27	20	Aerial Lifts	4	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	12/20/2031	1/20/2032	6	27	20	Cranes	4	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	12/20/2031	1/20/2032	6	27	20	Rough Terrain Forklifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	Aerial Lifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	Air Compressors	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	Generator Sets	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	Skid Steer Loaders	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	Welders	3	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	Air Compressors	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	Generator Sets	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	Cranes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	Welders	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Paving	7/19/2032	7/14/2033	6	310	20	Pavers	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Paving	7/19/2032	7/14/2033	6	310	20	Paving Equipment	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Paving	7/19/2032	7/14/2033	6	310	20	Rollers	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	Air Compressors	1	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	Concrete/Industrial Saws	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	Rough Terrain Forklifts	1	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	Skid Steer Loaders	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	Tractors/Loaders/Backhoes	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	Bore/Drill Rigs	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	Cranes	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	Pumps	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	Rough Terrain Forklifts	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	Tractors/Loaders/Backhoes	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	Cranes	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	Excavators	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	Rough Terrain Forklifts	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	Tractors/Loaders/Backhoes	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	Cranes	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	Generator Sets	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	Pumps	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	Rough Terrain Forklifts	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	Aerial Lifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	Cranes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	Rough Terrain Forklifts	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	Sweepers/Scrubbers	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	Tractors/Loaders/Backhoes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	Air Compressors	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	Concrete/Industrial Saws	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	Rough Terrain Forklifts	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	Skid Steer Loaders	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	Tractors/Loaders/Backhoes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	Bore/Drill Rigs	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	Cranes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	Pumps	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	Rough Terrain Forklifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	Tractors/Loaders/Backhoes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	Aerial Lifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	Cranes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	Excavators	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	Tractors/Loaders/Backhoes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 5

Dust Control Reduction 74%

BULLDOZING FUGITIVE DUST (ONSITE)

									Bulldozing EF (lb/hr)[1]						Daily Emissions (lb/day)[2,3]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
Metro E Line Stn_U-Alt5-TBM Pass Through-Maintenance	8/1/2030	9/30/2030	6	52	20	Cranes	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-TBM Pass Through-Maintenance	8/1/2030	9/30/2030	6	52	20	Generator Sets	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	Aerial Lifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	Cranes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	Excavators	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	Pumps	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	Skid Steer Loaders	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	Tractors/Loaders/Backhoes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	Aerial Lifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	Cement and Mortar Mixers	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	Generator Sets	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	Pumps	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	Welders	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	Aerial Lifts	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	Air Compressors	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	Pavers	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	Paving Equipment	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	Rollers	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	Air Compressors	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	Concrete/Industrial Saws	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	Rough Terrain Forklifts	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	Skid Steer Loaders	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	Tractors/Loaders/Backhoes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	Bore/Drill Rigs	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	Cranes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	Pumps	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	Rough Terrain Forklifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	Tractors/Loaders/Backhoes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	Aerial Lifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	Cranes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	Excavators	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	Tractors/Loaders/Backhoes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-TBM Pass Through-Maintenance	3/1/2031	4/30/2031	6	52	20	Cranes	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-TBM Pass Through-Maintenance	3/1/2031	4/30/2031	6	52	20	Generator Sets	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	Aerial Lifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	Cranes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	Excavators	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	Pumps	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	Skid Steer Loaders	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	Tractors/Loaders/Backhoes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	Aerial Lifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	Cement and Mortar Mixers	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	Generator Sets	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	Pumps	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	Welders	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	Air Compressors	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	Concrete/Industrial Saws	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	Rough Terrain Forklifts	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	Skid Steer Loaders	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	Tractors/Loaders/Backhoes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	Bore/Drill Rigs	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	Cranes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	Pumps	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	Rough Terrain Forklifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	Tractors/Loaders/Backhoes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	Aerial Lifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	Cranes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	Excavators	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	Tractors/Loaders/Backhoes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-TBM Pass Through-Maintenance	10/1/2031	11/30/2031	6	52	20	Cranes	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-TBM Pass Through-Maintenance	10/1/2031	11/30/2031	6	52	20	Generator Sets	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	Aerial Lifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	Cranes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	Excavators	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	Pumps	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	Skid Steer Loaders	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	Tractors/Loaders/Backhoes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	Aerial Lifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	Cement and Mortar Mixers	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	Generator Sets	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	Pumps	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	Welders	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 5

Dust Control Reduction 74%

BULLDOZING FUGITIVE DUST (ONSITE)

									Bulldozing EF (lb/hr)[1]						Daily Emissions (lb/day)[2,3]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	Air Compressors	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	Concrete/Industrial Saws	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	Rough Terrain Forklifts	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	Skid Steer Loaders	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	Tractors/Loaders/Backhoes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	Bore/Drill Rigs	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	Cranes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	Pumps	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	Rough Terrain Forklifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	Tractors/Loaders/Backhoes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	Aerial Lifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	Cranes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	Excavators	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	Tractors/Loaders/Backhoes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	Aerial Lifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	Cranes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	Excavators	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	Pumps	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	Skid Steer Loaders	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	Tractors/Loaders/Backhoes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	Aerial Lifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	Cranes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	Excavators	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	Pumps	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	Skid Steer Loaders	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	Tractors/Loaders/Backhoes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	Aerial Lifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	Cement and Mortar Mixers	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	Generator Sets	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	Pumps	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	Welders	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	Air Compressors	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	Concrete/Industrial Saws	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	Rough Terrain Forklifts	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	Skid Steer Loaders	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	Tractors/Loaders/Backhoes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	Bore/Drill Rigs	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	Cranes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	Pumps	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	Rough Terrain Forklifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	Tractors/Loaders/Backhoes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	Aerial Lifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	Cranes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	Excavators	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	Tractors/Loaders/Backhoes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	Aerial Lifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	Cranes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	Excavators	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	Pumps	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	Skid Steer Loaders	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	Tractors/Loaders/Backhoes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Mobilize/Launch Reach 2 TBM	10/1/2028	1/30/2029	7	122	20	Cranes	0	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Retrieve/Demob Reach 3 TBM	2/19/2032	5/18/2032	7	90	20	Cranes	0	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	Aerial Lifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	Cranes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	Excavators	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	Pumps	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	Skid Steer Loaders	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	Tractors/Loaders/Backhoes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	Aerial Lifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	Cement and Mortar Mixers	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	Generator Sets	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	Pumps	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	Welders	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	Aerial Lifts	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	Air Compressors	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	Pavers	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	Paving Equipment	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	Rollers	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	Air Compressors	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	Concrete/Industrial Saws	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	Rough Terrain Forklifts	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	Skid Steer Loaders	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	Tractors/Loaders/Backhoes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 5

Dust Control Reduction 74%

BULLDOZING FUGITIVE DUST (ONSITE)

									Bulldozing EF (lb/hr)[1]						Daily Emissions (lb/day)[2,3]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	Bore/Drill Rigs	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	Cranes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	Pumps	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	Rough Terrain Forklifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	Tractors/Loaders/Backhoes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	Aerial Lifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	Cranes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	Excavators	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	Tractors/Loaders/Backhoes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2030	10/31/2030	6	52	20	Cranes	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2030	10/31/2030	6	52	20	Generator Sets	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	Aerial Lifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	Cranes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	Excavators	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	Pumps	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	Skid Steer Loaders	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	Tractors/Loaders/Backhoes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	Aerial Lifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	Cement and Mortar Mixers	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	Generator Sets	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	Pumps	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	Welders	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	Air Compressors	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	Concrete/Industrial Saws	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	Rough Terrain Forklifts	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	Skid Steer Loaders	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	Tractors/Loaders/Backhoes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	Bore/Drill Rigs	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	Cranes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	Pumps	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	Rough Terrain Forklifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	Tractors/Loaders/Backhoes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	Aerial Lifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	Cranes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	Excavators	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	Tractors/Loaders/Backhoes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2029	10/31/2029	6	52	10	Cranes	1	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2029	10/31/2029	6	52	10	Generator Sets	1	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	Aerial Lifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	Cranes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	Excavators	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	Pumps	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	Skid Steer Loaders	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	Tractors/Loaders/Backhoes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	Aerial Lifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	Cement and Mortar Mixers	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	Generator Sets	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	Pumps	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	Welders	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	Aerial Lifts	1	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	Air Compressors	1	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	Pavers	1	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	Paving Equipment	1	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	Rollers	1	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	Air Compressors	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	Concrete/Industrial Saws	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	Rough Terrain Forklifts	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	Skid Steer Loaders	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	Tractors/Loaders/Backhoes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	Bore/Drill Rigs	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	Cranes	3	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	Pumps	3	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	Rough Terrain Forklifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	Tractors/Loaders/Backhoes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	Aerial Lifts	4	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	Cranes	4	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	Other Construction Equipme	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	Rough Terrain Forklifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	Welders	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	Aerial Lifts	4	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	Air Compressors	4	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	Cranes	4	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	Other Construction Equipme	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	Rough Terrain Forklifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	Welders	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 5

Dust Control Reduction 74%

BULLDOZING FUGITIVE DUST (ONSITE)

									Bulldozing EF (lb/hr)[1]						Daily Emissions (lb/day)[2,3]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	Aerial Lifts	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	Air Compressors	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	Pavers	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	Paving Equipment	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	Rollers	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	Trenchers	1	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	Skid Steer Loaders	1	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	Tractors/Loaders/Backhoes	1	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	Cranes	1	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	Pumps	1	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	Tractors/Loaders/Backhoes	1	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	Aerial Lifts	1	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	Cranes	1	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	Rough Terrain Forklifts	1	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	Welders	1	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	Air Compressors	1	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	Generator Sets	1	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	Skid Steer Loaders	1	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	Concrete/Industrial Saws	1	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	Excavators	3	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	Rubber Tired Dozers	2	7.5	0.753	-	0.753	0.414	-	0.414	2.936	-	2.936	1.614	-	1.614	0.113	-	0.113	0.062	-	0.062
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	Rubber Tired Dozers	3	7.5	0.753	-	0.753	0.414	-	0.414	4.404	-	4.404	2.421	-	2.421	0.114	-	0.114	0.063	-	0.063
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	Tractors/Loaders/Backhoes	4	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Grading	3/1/2032	7/31/2032	6	132	10	Excavators	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Grading	3/1/2032	7/31/2032	6	132	10	Graders	1	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Grading	3/1/2032	7/31/2032	6	132	10	Rubber Tired Dozers	1	7.5	0.753	-	0.753	0.414	-	0.414	1.468	-	1.468	0.807	-	0.807	0.097	-	0.097	0.053	-	0.053
MSF-Grading	3/1/2032	7/31/2032	6	132	10	Scrapers	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Grading	3/1/2032	7/31/2032	6	132	10	Tractors/Loaders/Backhoes	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	Cranes	1	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	Forklifts	3	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	Generator Sets	1	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	Tractors/Loaders/Backhoes	3	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	Welders	1	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Paving	12/1/2034	1/30/2035	6	52	10	Pavers	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Paving	12/1/2034	1/30/2035	6	52	10	Paving Equipment	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Paving	12/1/2034	1/30/2035	6	52	10	Rollers	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	Air Compressors	1	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	Aerial Lifts	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	Rough Terrain Forklifts	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	Welders	2	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	Cranes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	Cement and Mortar Mixers	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	Generator Sets	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	Other General Industrial Equ	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	Pumps	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	Rough Terrain Forklifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	Tractors/Loaders/Backhoes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	Welders	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	Cranes	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	Rough Terrain Forklifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	Skid Steer Loaders	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	Tractors/Loaders/Backhoes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	Welders	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	Cranes	1	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	Rough Terrain Forklifts	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	Skid Steer Loaders	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	Tractors/Loaders/Backhoes	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	Welders	2	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

1. Emission factor based on CalEEMod default value.
2. Emissions account for dust control reduction from water application 3 times per day.
3. Bulldozing emissions are only calculated for Rubber Tired Dozers which is consistent with CalEEMod methodology.

FD = Fugitive Dust

EXH = Exhaust

Sepulveda Transit Corridor Project - ALTERNATIVE 5 Dust Control Reduction 74%

GRADING FUGITIVE DUST (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	Acres Graded per 8-hr day	Scaling Factor[1]	Acres per day	Daily VMT[2]	Grading EF (lb/VMT)[3]						Daily Emissions (lb/day)[4,5]						Total Emissions (tons)					
													PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	Air Compressors	1	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	Concrete/Industrial Saws	2	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	Rough Terrain Forklifts	1	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	Skid Steer Loaders	2	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	Tractors/Loaders/Backhoes	2	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	Bore/Drill Rigs	2	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	Cranes	2	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	Pumps	2	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	Rough Terrain Forklifts	2	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	Tractors/Loaders/Backhoes	2	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	Cranes	2	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	Excavators	2	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	Rough Terrain Forklifts	2	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	Tractors/Loaders/Backhoes	2	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	Cranes	2	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	Generator Sets	2	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	Pumps	2	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	Rough Terrain Forklifts	2	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	Cranes	4	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	Generator Sets	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	Pumps	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	Tractors/Loaders/Backhoes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	Welders	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	Aerial Lifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	Cranes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	Rough Terrain Forklifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	Tunnel Boring Machine (TBM	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	Tractors/Loaders/Backhoes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	Cranes	4	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	Generator Sets	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	Pumps	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	Tractors/Loaders/Backhoes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	Welders	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	4/15/2030	6/11/2032	7	789	20	Aerial Lifts	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	4/15/2030	6/11/2032	7	789	20	Air Compressors	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	4/15/2030	6/11/2032	7	789	20	Rollers	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenur	6/12/2032	11/28/2033	7	535	20	Aerial Lifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenur	6/12/2032	11/28/2033	7	535	20	Cement and Mortar Mixers	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installatio	12/1/2033	7/13/2034	7	225	20	Aerial Lifts	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installatio	12/1/2033	7/13/2034	7	225	20	Air Compressors	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installatio	12/1/2033	7/13/2034	7	225	20	Generator Sets	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installatio	12/1/2033	7/13/2034	7	225	20	Welders	3	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	Cranes	4	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	Generator Sets	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	Pumps	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	Tractors/Loaders/Backhoes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	Welders	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	Aerial Lifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	Cranes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	Rough Terrain Forklifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	Tunnel Boring Machine (TBM	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	Tractors/Loaders/Backhoes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	Cranes	4	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	Generator Sets	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	Pumps	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	Tractors/Loaders/Backhoes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	Welders	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	3/1/2029	2/14/2033	7	1447	20	Aerial Lifts	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	3/1/2029	2/14/2033	7	1447	20	Air Compressors	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	3/1/2029	2/14/2033	7	1447	20	Rollers	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Slabs, Walkways, Plenum	8/23/2032	12/14/2034	7	844	20	Aerial Lifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Slabs, Walkways, Plenum	8/23/2032	12/14/2034	7	844	20	Cement and Mortar Mixers	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	Aerial Lifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	Air Compressors	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	Generator Sets	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	Rough Terrain Forklifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	Air Compressors	1	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	Concrete/Industrial Saws	2	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	Rough Terrain Forklifts	1	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	Skid Steer Loaders	2	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	Tractors/Loaders/Backhoes	2	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	Bore/Drill Rigs	2	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	Cranes	2	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	Pumps	2	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	Rough Terrain Forklifts	2	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	Tractors/Loaders/Backhoes	2	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 5

Dust Control Reduction 74%

GRADING FUGITIVE DUST (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	Acres Graded per 8-hr day	Scaling Factor[1]	Acres per day	Daily VMT[2]	Grading EF (lb/VMT)[3] PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	Daily Emissions (lb/day)[4,5] PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	Total Emissions (tons) PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	Cranes	2	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	Excavators	2	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	Rough Terrain Forklifts	2	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	Tractors/Loaders/Backhoes	2	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	Cranes	2	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	Generator Sets	2	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	Pumps	2	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	Rough Terrain Forklifts	2	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	Cranes	4	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	Generator Sets	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	Pumps	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	Tractors/Loaders/Backhoes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	Welders	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	Aerial Lifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	Cranes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	Rough Terrain Forklifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	Tunnel Boring Machine (TBM	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	Tractors/Loaders/Backhoes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	Cranes	4	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	Generator Sets	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	Pumps	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	Tractors/Loaders/Backhoes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	Welders	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	4/3/2029	2/19/2032	7	1053	20	Aerial Lifts	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	4/3/2029	2/19/2032	7	1053	20	Air Compressors	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	4/3/2029	2/19/2032	7	1053	20	Rollers	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Slabs, Walkways, Plenum	9/23/2031	5/18/2033	7	604	20	Aerial Lifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Slabs, Walkways, Plenum	9/23/2031	5/18/2033	7	604	20	Cement and Mortar Mixers	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	Aerial Lifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	Air Compressors	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	Generator Sets	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	Rough Terrain Forklifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	Air Compressors	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	Concrete/Industrial Saws	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	Rough Terrain Forklifts	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	Skid Steer Loaders	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	Tractors/Loaders/Backhoes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	Bore/Drill Rigs	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	Cranes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	Pumps	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	Rough Terrain Forklifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	Tractors/Loaders/Backhoes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	Cranes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	Excavators	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	Rough Terrain Forklifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	Tractors/Loaders/Backhoes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	Cranes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	Generator Sets	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	Pumps	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	Rough Terrain Forklifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	Aerial Lifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	Generator Sets	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	Rough Terrain Forklifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	Welders	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	Aerial Lifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	Bore/Drill Rigs	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	Cranes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	Pumps	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	Rollers	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	Rough Terrain Forklifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	Aerial Lifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	Cranes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	Pumps	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	Rough Terrain Forklifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	Aerial Lifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	Cranes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	Pumps	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	Rough Terrain Forklifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	10/29/2030	12/24/2030	6	49	20	Aerial Lifts	4	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	10/29/2030	12/24/2030	6	49	20	Cranes	4	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	10/29/2030	12/24/2030	6	49	20	Rough Terrain Forklifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	Aerial Lifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	Cranes	4	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	Excavators	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	Other Construction Equipme	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	12/20/2031	1/20/2032	6	27	20	Aerial Lifts	4	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	12/20/2031	1/20/2032	6	27	20	Cranes	4	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	12/20/2031	1/20/2032	6	27	20	Rough Terrain Forklifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	Aerial Lifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	Air Compressors	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	Generator Sets	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	Skid Steer Loaders	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	Welders	3	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 5

Dust Control Reduction 74%

GRADING FUGITIVE DUST (ONSITE)

													Grading EF (lb/VMT)[3]						Daily Emissions (lb/day)[4,5]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	Acres Graded per 8-hr day	Scaling Factor[1]	Acres per day	Daily VMT[2]	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	Air Compressors	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	Generator Sets	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	Cranes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	Welders	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Paving	7/19/2032	7/14/2033	6	310	20	Pavers	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Paving	7/19/2032	7/14/2033	6	310	20	Paving Equipment	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Paving	7/19/2032	7/14/2033	6	310	20	Rollers	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	Air Compressors	1	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	Concrete/Industrial Saws	2	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	Rough Terrain Forklifts	1	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	Skid Steer Loaders	2	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	Tractors/Loaders/Backhoes	2	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	Bore/Drill Rigs	2	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	Cranes	2	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	Pumps	2	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	Rough Terrain Forklifts	2	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	Tractors/Loaders/Backhoes	2	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	Cranes	2	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	Excavators	2	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	Rough Terrain Forklifts	2	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	Tractors/Loaders/Backhoes	2	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	Cranes	2	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	Generator Sets	2	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	Pumps	2	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	Rough Terrain Forklifts	2	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	Aerial Lifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	Cranes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	Rough Terrain Forklifts	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	Sweepers/Scrubbers	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	Tractors/Loaders/Backhoes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	Air Compressors	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	Concrete/Industrial Saws	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	Rough Terrain Forklifts	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	Skid Steer Loaders	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	Tractors/Loaders/Backhoes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	Bore/Drill Rigs	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	Cranes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	Pumps	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	Rough Terrain Forklifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	Tractors/Loaders/Backhoes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	Aerial Lifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	Cranes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	Excavators	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	Tractors/Loaders/Backhoes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-TBM Pass Through-Maintenance	8/1/2030	9/30/2030	6	52	20	Cranes	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-TBM Pass Through-Maintenance	8/1/2030	9/30/2030	6	52	20	Generator Sets	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	Aerial Lifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	Cranes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	Excavators	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	Pumps	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	Skid Steer Loaders	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	Tractors/Loaders/Backhoes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	Aerial Lifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	Cement and Mortar Mixers	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	Generator Sets	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	Pumps	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	Welders	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	Aerial Lifts	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	Air Compressors	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	Pavers	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	Paving Equipment	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	Rollers	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	Air Compressors	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	Concrete/Industrial Saws	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	Rough Terrain Forklifts	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	Skid Steer Loaders	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	Tractors/Loaders/Backhoes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	Bore/Drill Rigs	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	Cranes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	Pumps	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	Rough Terrain Forklifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	Tractors/Loaders/Backhoes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	Aerial Lifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	Cranes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	Excavators	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	Tractors/Loaders/Backhoes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-TBM Pass Through-Maintenance	3/1/2031	4/30/2031	6	52	20	Cranes	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-TBM Pass Through-Maintenance	3/1/2031	4/30/2031	6	52	20	Generator Sets	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 5

Dust Control Reduction 74%

GRADING FUGITIVE DUST (ONSITE)

													Grading EF (lb/VMT)[3]						Daily Emissions (lb/day)[4,5]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	Acres Graded per 8-hr day	Scaling Factor[1]	Acres per day	Daily VMT[2]	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	Aerial Lifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	Cranes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	Excavators	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	Pumps	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	Skid Steer Loaders	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	Tractors/Loaders/Backhoes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	Aerial Lifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	Cement and Mortar Mixers	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	Generator Sets	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	Pumps	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	Welders	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	Air Compressors	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	Concrete/Industrial Saws	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	Rough Terrain Forklifts	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	Skid Steer Loaders	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	Tractors/Loaders/Backhoes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	Bore/Drill Rigs	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	Cranes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	Pumps	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	Rough Terrain Forklifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	Tractors/Loaders/Backhoes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	Aerial Lifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	Cranes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	Excavators	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	Tractors/Loaders/Backhoes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-TBM Pass Through-Maintenance	10/1/2031	11/30/2031	6	52	20	Cranes	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-TBM Pass Through-Maintenance	10/1/2031	11/30/2031	6	52	20	Generator Sets	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	Aerial Lifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	Cranes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	Excavators	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	Pumps	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	Skid Steer Loaders	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	Tractors/Loaders/Backhoes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	Aerial Lifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	Cement and Mortar Mixers	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	Generator Sets	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	Pumps	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	Welders	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	Air Compressors	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	Concrete/Industrial Saws	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	Rough Terrain Forklifts	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	Skid Steer Loaders	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	Tractors/Loaders/Backhoes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	Bore/Drill Rigs	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	Cranes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	Pumps	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	Rough Terrain Forklifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	Tractors/Loaders/Backhoes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	Aerial Lifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	Cranes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	Excavators	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	Tractors/Loaders/Backhoes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	Aerial Lifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	Cranes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	Excavators	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	Pumps	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	Skid Steer Loaders	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	Tractors/Loaders/Backhoes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	Aerial Lifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	Cranes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	Excavators	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	Pumps	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	Skid Steer Loaders	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	Tractors/Loaders/Backhoes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	Aerial Lifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	Cement and Mortar Mixers	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	Generator Sets	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	Pumps	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	Welders	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	Air Compressors	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	Concrete/Industrial Saws	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	Rough Terrain Forklifts	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	Skid Steer Loaders	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	Tractors/Loaders/Backhoes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	Bore/Drill Rigs	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	Cranes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	Pumps	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	Rough Terrain Forklifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	Tractors/Loaders/Backhoes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	Aerial Lifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	Cranes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	Excavators	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	Tractors/Loaders/Backhoes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 5

Dust Control Reduction 74%

GRADING FUGITIVE DUST (ONSITE)

													Grading EF (lb/VMT)[3]						Daily Emissions (lb/day)[4,5]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	Acres Graded per 8-hr day	Scaling Factor[1]	Acres per day	Daily VMT[2]	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	Aerial Lifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	Cranes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	Excavators	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	Pumps	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	Skid Steer Loaders	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	Tractors/Loaders/Backhoes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Mobilize/Launch Reach 2 TBM	10/1/2028	1/30/2029	7	122	20	Cranes	-	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Retrieve/Demob Reach 3 TBM	2/19/2032	5/18/2032	7	90	20	Cranes	-	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	Aerial Lifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	Cranes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	Excavators	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	Pumps	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	Skid Steer Loaders	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	Tractors/Loaders/Backhoes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	Aerial Lifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	Cement and Mortar Mixers	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	Generator Sets	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	Pumps	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	Welders	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	Aerial Lifts	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	Air Compressors	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	Pavers	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	Paving Equipment	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	Rollers	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	Air Compressors	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	Concrete/Industrial Saws	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	Rough Terrain Forklifts	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	Skid Steer Loaders	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	Tractors/Loaders/Backhoes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	Bore/Drill Rigs	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	Cranes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	Pumps	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	Rough Terrain Forklifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	Tractors/Loaders/Backhoes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	Aerial Lifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	Cranes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	Excavators	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	Tractors/Loaders/Backhoes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2030	10/31/2030	6	52	20	Cranes	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2030	10/31/2030	6	52	20	Generator Sets	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	Aerial Lifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	Cranes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	Excavators	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	Pumps	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	Skid Steer Loaders	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	Tractors/Loaders/Backhoes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	Aerial Lifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	Cement and Mortar Mixers	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	Generator Sets	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	Pumps	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	Welders	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	Air Compressors	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	Concrete/Industrial Saws	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	Rough Terrain Forklifts	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	Skid Steer Loaders	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	Tractors/Loaders/Backhoes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	Bore/Drill Rigs	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	Cranes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	Pumps	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	Rough Terrain Forklifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	Tractors/Loaders/Backhoes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	Aerial Lifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	Cranes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	Excavators	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	Tractors/Loaders/Backhoes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2029	10/31/2029	6	52	10	Cranes	1	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2029	10/31/2029	6	52	10	Generator Sets	1	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	Aerial Lifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	Cranes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	Excavators	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	Pumps	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	Skid Steer Loaders	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	Tractors/Loaders/Backhoes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	Aerial Lifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	Cement and Mortar Mixers	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	Generator Sets	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	Pumps	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	Welders	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	Aerial Lifts	1	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	Air Compressors	1	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	Pavers	1	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	Paving Equipment	1	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	Rollers	1	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 5

Dust Control Reduction 74%

GRADING FUGITIVE DUST (ONSITE)

													Grading EF (lb/VMT)[3]						Daily Emissions (lb/day)[4,5]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	Acres Graded per 8-hr day	Scaling Factor[1]	Acres per day	Daily VMT[2]	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	Air Compressors	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	Concrete/Industrial Saws	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	Rough Terrain Forklifts	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	Skid Steer Loaders	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	Tractors/Loaders/Backhoes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	Bore/Drill Rigs	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	Cranes	3	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	Pumps	3	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	Rough Terrain Forklifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	Tractors/Loaders/Backhoes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	Aerial Lifts	4	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	Cranes	4	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	Other Construction Equipme	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	Rough Terrain Forklifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	Welders	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	Aerial Lifts	4	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	Air Compressors	4	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	Cranes	4	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	Other Construction Equipme	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	Rough Terrain Forklifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	Welders	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	Aerial Lifts	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	Air Compressors	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	Pavers	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	Paving Equipment	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	Rollers	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	Trenchers	1	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	Skid Steer Loaders	1	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	Tractors/Loaders/Backhoes	1	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	Cranes	1	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	Pumps	1	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	Tractors/Loaders/Backhoes	1	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	Aerial Lifts	1	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	Cranes	1	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	Rough Terrain Forklifts	1	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	Welders	1	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	Air Compressors	1	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	Generator Sets	1	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	Skid Steer Loaders	1	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	Concrete/Industrial Saws	1	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	Excavators	3	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	Rubber Tired Dozers	2	7.5	0.5	8.0	1	1	1.54	-	1.54	0.17	-	0.17	0.26	-	0.26	0.03	-	0.03	0.01	-	0.01	0.00	-	0.00
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	Rubber Tired Dozers	3	7.5	0.5	8.0	1	1	1.54	-	1.54	0.17	-	0.17	0.39	-	0.39	0.04	-	0.04	0.01	-	0.01	0.00	-	0.00
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	Tractors/Loaders/Backhoes	4	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Grading	3/1/2032	7/31/2032	6	132	10	Excavators	2	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Grading	3/1/2032	7/31/2032	6	132	10	Graders	1	7.5	0.5	8.0	0	0	1.54	-	1.54	0.17	-	0.17	0.13	-	0.13	0.01	-	0.01	0.01	-	0.01	0.00	-	0.00
MSF-Grading	3/1/2032	7/31/2032	6	132	10	Rubber Tired Dozers	1	7.5	0.5	8.0	0	0	1.54	-	1.54	0.17	-	0.17	0.13	-	0.13	0.01	-	0.01	0.01	-	0.01	0.00	-	0.00
MSF-Grading	3/1/2032	7/31/2032	6	132	10	Scrapers	2	7.5	1.0	8.0	2	1	1.54	-	1.54	0.17	-	0.17	0.52	-	0.52	0.06	-	0.06	0.03	-	0.03	0.00	-	0.00
MSF-Grading	3/1/2032	7/31/2032	6	132	10	Tractors/Loaders/Backhoes	2	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	Cranes	1	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	Forklifts	3	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	Generator Sets	1	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	Tractors/Loaders/Backhoes	3	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	Welders	1	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Paving	12/1/2034	1/30/2035	6	52	10	Pavers	2	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Paving	12/1/2034	1/30/2035	6	52	10	Paving Equipment	2	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Paving	12/1/2034	1/30/2035	6	52	10	Rollers	2	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	Air Compressors	1	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	Aerial Lifts	2	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	Rough Terrain Forklifts	2	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	Welders	2	7.5	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	Cranes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	Cement and Mortar Mixers	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	Generator Sets	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	Other General Industrial Equ	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	Pumps	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	Rough Terrain Forklifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	Tractors/Loaders/Backhoes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	Welders	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	Cranes	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	Rough Terrain Forklifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	Skid Steer Loaders	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	Tractors/Loaders/Backhoes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	Welders	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 5

Dust Control Reduction 74%

GRADING FUGITIVE DUST (ONSITE)

												Grading EF (lb/VMT)[3]						Daily Emissions (lb/day)[4,5]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	Acres Graded per 8-hr day	Scaling Factor[1]	Acres per day	Daily VMT[2]	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	Cranes	1	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	Rough Terrain Forklifts	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	Skid Steer Loaders	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	Tractors/Loaders/Backhoes	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	Welders	2	15.0	-	8.0	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

1. CalEEMod provides the amount of acres that can be graded per 8-hours. The scaling factor is included in case equipment would operate more or less than 8 hours, thus, the amount of area to be graded would be adjusted.
2. Grading VMT based on methodology from CalEEMod which accounts for bladewidth of grading equipment and the amount of area grading equipment can complete in 8-hour day.
3. Emission factor based on CalEEMod default value.
4. Emissions account for dust control reduction from water application 3 times per day.
5. Grading emissions are only calculated for the following equipment types: Crawler Tractors, Graders, Rubber Tired Dozers, and Scrapers. This approach is consistent with CalEEMod methodology.

FD = Fugitive Dust

EXH = Exhaust

Sepulveda Transit Corridor Project - ALTERNATIVE 5

WORKER VEHICLES (OFFSITE)

											Running Emission Factor (g/mile)[1,2]													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Workers per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	2028	Worker	20	40	18.50	0.02	0.08	1.05	0.00	0.32	0.00	0.32	0.08	0.00	0.08	321.4	0.00	0.01
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	2029	Worker	26	52	18.50	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.2	0.00	0.01
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	2029	Worker	20	40	18.50	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.2	0.00	0.01
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	2029	Worker	20	40	18.50	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.2	0.00	0.01
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	2029	Worker	30	60	18.50	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.2	0.00	0.01
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	2030	Worker	24	48	18.50	0.01	0.06	0.94	0.00	0.32	0.00	0.32	0.08	0.00	0.08	315.3	0.00	0.01
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	2032	Worker	30	60	18.50	0.01	0.05	0.83	0.00	0.32	0.00	0.32	0.08	0.00	0.08	310.2	0.00	0.01
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	4/15/2030	6/11/2032	7	789	20	2030	Worker	8	16	19.50	0.01	0.06	0.94	0.00	0.32	0.00	0.32	0.08	0.00	0.08	315.3	0.00	0.01
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	6/12/2032	11/28/2033	7	535	20	2032	Worker	10	20	19.50	0.01	0.05	0.83	0.00	0.32	0.00	0.32	0.08	0.00	0.08	310.2	0.00	0.01
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	12/1/2033	7/13/2034	7	225	20	2033	Worker	20	40	18.50	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.9	0.00	0.00
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Worker	30	60	18.50	0.02	0.08	1.05	0.00	0.32	0.00	0.32	0.08	0.00	0.08	321.4	0.00	0.01
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	2029	Worker	24	48	18.50	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.2	0.00	0.01
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	2033	Worker	30	60	18.50	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.9	0.00	0.00
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	3/1/2029	2/14/2033	7	1447	20	2029	Worker	8	16	18.50	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.2	0.00	0.01
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Slabs, Walkways, Plenum	8/23/2032	12/14/2034	7	844	20	2032	Worker	10	20	18.50	0.01	0.05	0.83	0.00	0.32	0.00	0.32	0.08	0.00	0.08	310.2	0.00	0.01
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	2034	Worker	20	40	18.50	0.01	0.04	0.75	0.00	0.32	0.00	0.32	0.08	0.00	0.08	305.8	0.00	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	2027	Worker	20	40	18.50	0.02	0.09	1.12	0.00	0.32	0.00	0.32	0.08	0.00	0.08	324.8	0.00	0.01
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	2028	Worker	26	52	18.50	0.02	0.08	1.05	0.00	0.32	0.00	0.32	0.08	0.00	0.08	321.4	0.00	0.01
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	2028	Worker	20	40	18.50	0.02	0.08	1.05	0.00	0.32	0.00	0.32	0.08	0.00	0.08	321.4	0.00	0.01
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	2028	Worker	20	40	18.50	0.02	0.08	1.05	0.00	0.32	0.00	0.32	0.08	0.00	0.08	321.4	0.00	0.01
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Worker	30	60	18.50	0.02	0.08	1.05	0.00	0.32	0.00	0.32	0.08	0.00	0.08	321.4	0.00	0.01
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	2029	Worker	24	48	18.50	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.2	0.00	0.01
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	2032	Worker	30	60	18.50	0.01	0.05	0.83	0.00	0.32	0.00	0.32	0.08	0.00	0.08	310.2	0.00	0.01
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	4/3/2029	2/19/2032	7	1053	20	2029	Worker	8	16	18.50	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.2	0.00	0.01
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Slabs, Walkways, Plenum	9/23/2031	5/18/2033	7	604	20	2031	Worker	10	20	18.50	0.01	0.06	0.88	0.00	0.32	0.00	0.32	0.08	0.00	0.08	312.6	0.00	0.01
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	2033	Worker	20	40	18.50	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.9	0.00	0.00
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	2030	Worker	20	40	18.50	0.01	0.06	0.94	0.00	0.32	0.00	0.32	0.08	0.00	0.08	315.3	0.00	0.01
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	2030	Worker	26	52	18.50	0.01	0.06	0.94	0.00	0.32	0.00	0.32	0.08	0.00	0.08	315.3	0.00	0.01
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	2030	Worker	20	40	18.50	0.01	0.06	0.94	0.00	0.32	0.00	0.32	0.08	0.00	0.08	315.3	0.00	0.01
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	2031	Worker	20	40	18.50	0.01	0.06	0.88	0.00	0.32	0.00	0.32	0.08	0.00	0.08	312.6	0.00	0.01
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Worker	20	40	18.50	0.01	0.05	0.83	0.00	0.32	0.00	0.32	0.08	0.00	0.08	310.2	0.00	0.01
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	2029	Worker	30	60	18.50	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.2	0.00	0.01
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	2030	Worker	20	40	18.50	0.01	0.06	0.94	0.00	0.32	0.00	0.32	0.08	0.00	0.08	315.3	0.00	0.01
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	2030	Worker	20	40	18.50	0.01	0.06	0.94	0.00	0.32	0.00	0.32	0.08	0.00	0.08	315.3	0.00	0.01
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	10/29/2030	12/24/2030	6	49	20	2030	Worker	26	52	18.50	0.01	0.06	0.94	0.00	0.32	0.00	0.32	0.08	0.00	0.08	315.3	0.00	0.01
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	2030	Worker	26	52	18.50	0.01	0.06	0.94	0.00	0.32	0.00	0.32	0.08	0.00	0.08	315.3	0.00	0.01
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	12/20/2031	1/20/2032	6	27	20	2031	Worker	26	52	18.50	0.01	0.06	0.88	0.00	0.32	0.00	0.32	0.08	0.00	0.08	312.6	0.00	0.01
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	2032	Worker	28	56	18.50	0.01	0.05	0.83	0.00	0.32	0.00	0.32	0.08	0.00	0.08	310.2	0.00	0.01
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Worker	20	40	18.50	0.01	0.05	0.83	0.00	0.32	0.00	0.32	0.08	0.00	0.08	310.2	0.00	0.01
Segment 6-Reach 3 Portal to MSF-Paving	7/19/2032	7/14/2033	6	310	20	2032	Worker	8	16	18.50	0.01	0.05	0.83	0.00	0.32	0.00	0.32	0.08	0.00	0.08	310.2	0.00	0.01
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Worker	20	40	18.50	0.01	0.06	0.94	0.00	0.32	0.00	0.32	0.08	0.00	0.08	315.3	0.00	0.01
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	2030	Worker	26	52	18.50	0.01	0.06	0.94	0.00	0.32	0.00	0.32	0.08	0.00	0.08	315.3	0.00	0.01
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	2030	Worker	20	40	18.50	0.01	0.06	0.94	0.00	0.32	0.00	0.32	0.08	0.00	0.08	315.3	0.00	0.01
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	2030	Worker	20	40	18.50	0.01	0.06	0.94	0.00	0.32	0.00	0.32	0.08	0.00	0.08	315.3	0.00	0.01
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	2030	Worker	20	40	18.50	0.01	0.06	0.94	0.00	0.32	0.00	0.32	0.08	0.00	0.08	315.3	0.00	0.01
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Worker	20	40	18.50	0.02	0.09	1.12	0.00	0.32	0.00	0.32	0.08	0.00	0.08	324.8	0.00	0.01
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Worker	26	52	18.50	0.02	0.08	1.05	0.00	0.32	0.00	0.32	0.08	0.00	0.08	321.4	0.00	0.01
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	2029	Worker	20	40	18.50	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.2	0.00	0.01
Metro E Line Stn_U-Alt5-TBM Pass Through-Maintenance	8/1/2030	9/30/2030	6	52	20	2030	Worker	6	12	18.50	0.01	0.06	0.94	0.00	0.32	0.00	0.32	0.08	0.00	0.08	315.3	0.00	0.01
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	2030	Worker	30	60	18.50	0.01	0.06	0.94	0.00	0.32	0.00	0.32	0.08	0.00	0.08	315.3	0.00	0.01
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	2031	Worker	20	40	18.50	0.01	0.06	0.88	0.00	0.32	0.00	0.32	0.08	0.00	0.08	312.6	0.00	0.01
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	2034	Worker	14	28	18.50	0.01	0.04	0.75	0.00	0.32	0.00	0.32	0.08	0.00	0.08	305.8	0.00	0.00
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	2028	Worker	20	40	18.50	0.02	0.08	1.05	0.00	0.32	0.00	0.32	0.08	0.00	0.08	321.4	0.00	0.01
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	2029	Worker	26	52	18.50	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.2	0.00	0.01
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	2029	Worker	20	40	18.50	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.2	0.00	0.01
Santa Monica Stn_U-Alt5-TBM Pass Through-Maintenance	3/1/2031	4/30/2031	6	52	20	2031	Worker	6	12	18.50	0.01	0.06	0.88	0.00	0.32	0.00	0.32	0.08	0.00	0.08	312.6	0.00	0.01
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	2030	Worker	30	60	18.50	0.01	0.06	0.94	0.00	0.32	0.00	0.32	0.08	0.00	0.08	315.3	0.00	0.01
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	2032	Worker	20	40	18.50	0.01	0.05	0.83	0.00	0.32	0.00	0.32	0.08	0.00	0.08	310.2	0.00	0.01

Sepulveda Transit Corridor Project - ALTERNATIVE 5

WORKER VEHICLES (OFFSITE)

											Non-Running Emission Factor (g/trip)[1,3]													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Workers per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	2028	Worker	20	40	18.50	1.26	0.28	3.44	0.00	-	0.00	0.00	-	0.00	0.00	79.4	0.07	0.03
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	2029	Worker	26	52	18.50	1.19	0.27	3.24	0.00	-	0.00	0.00	-	0.00	0.00	78.3	0.07	0.03
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	2029	Worker	20	40	18.50	1.19	0.27	3.24	0.00	-	0.00	0.00	-	0.00	0.00	78.3	0.07	0.03
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	2029	Worker	20	40	18.50	1.19	0.27	3.24	0.00	-	0.00	0.00	-	0.00	0.00	78.3	0.07	0.03
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	2029	Worker	30	60	18.50	1.19	0.27	3.24	0.00	-	0.00	0.00	-	0.00	0.00	78.3	0.07	0.03
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	2030	Worker	24	48	18.50	1.13	0.26	3.06	0.00	-	0.00	0.00	-	0.00	0.00	77.3	0.06	0.03
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	2032	Worker	30	60	18.50	1.02	0.24	2.73	0.00	-	0.00	0.00	-	0.00	0.00	75.5	0.06	0.03
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	4/15/2030	6/11/2032	7	789	20	2030	Worker	8	16	19.50	1.13	0.26	3.06	0.00	-	0.00	0.00	-	0.00	0.00	77.3	0.06	0.03
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	6/12/2032	11/28/2033	7	535	20	2032	Worker	10	20	19.50	1.02	0.24	2.73	0.00	-	0.00	0.00	-	0.00	0.00	75.5	0.06	0.03
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	12/1/2033	7/13/2034	7	225	20	2033	Worker	20	40	18.50	0.98	0.23	2.59	0.00	-	0.00	0.00	-	0.00	0.00	74.6	0.05	0.03
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Worker	30	60	18.50	1.26	0.28	3.44	0.00	-	0.00	0.00	-	0.00	0.00	79.4	0.07	0.03
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	2029	Worker	24	48	18.50	1.19	0.27	3.24	0.00	-	0.00	0.00	-	0.00	0.00	78.3	0.07	0.03
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	2033	Worker	30	60	18.50	0.98	0.23	2.59	0.00	-	0.00	0.00	-	0.00	0.00	74.6	0.05	0.03
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	3/1/2029	2/14/2033	7	1447	20	2029	Worker	8	16	18.50	1.19	0.27	3.24	0.00	-	0.00	0.00	-	0.00	0.00	78.3	0.07	0.03
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Slabs, Walkways, Plenum	8/23/2032	12/14/2034	7	844	20	2032	Worker	10	20	18.50	1.02	0.24	2.73	0.00	-	0.00	0.00	-	0.00	0.00	75.5	0.06	0.03
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	2034	Worker	20	40	18.50	0.92	0.22	2.45	0.00	-	0.00	0.00	-	0.00	0.00	73.9	0.05	0.03
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	2027	Worker	20	40	18.50	1.31	0.30	3.64	0.00	-	0.00	0.00	-	0.00	0.00	80.5	0.08	0.03
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	2028	Worker	26	52	18.50	1.26	0.28	3.44	0.00	-	0.00	0.00	-	0.00	0.00	79.4	0.07	0.03
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	2028	Worker	20	40	18.50	1.26	0.28	3.44	0.00	-	0.00	0.00	-	0.00	0.00	79.4	0.07	0.03
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	2028	Worker	20	40	18.50	1.26	0.28	3.44	0.00	-	0.00	0.00	-	0.00	0.00	79.4	0.07	0.03
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Worker	30	60	18.50	1.26	0.28	3.44	0.00	-	0.00	0.00	-	0.00	0.00	79.4	0.07	0.03
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	2029	Worker	24	48	18.50	1.19	0.27	3.24	0.00	-	0.00	0.00	-	0.00	0.00	78.3	0.07	0.03
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	2032	Worker	30	60	18.50	1.02	0.24	2.73	0.00	-	0.00	0.00	-	0.00	0.00	75.5	0.06	0.03
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	4/3/2029	2/19/2032	7	1053	20	2029	Worker	8	16	18.50	1.19	0.27	3.24	0.00	-	0.00	0.00	-	0.00	0.00	78.3	0.07	0.03
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Slabs, Walkways, Plenum	9/23/2031	5/18/2033	7	604	20	2031	Worker	10	20	18.50	1.07	0.25	2.88	0.00	-	0.00	0.00	-	0.00	0.00	76.4	0.06	0.03
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	2033	Worker	20	40	18.50	0.98	0.23	2.59	0.00	-	0.00	0.00	-	0.00	0.00	74.6	0.05	0.03
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	2030	Worker	20	40	18.50	1.13	0.26	3.06	0.00	-	0.00	0.00	-	0.00	0.00	77.3	0.06	0.03
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	2030	Worker	26	52	18.50	1.13	0.26	3.06	0.00	-	0.00	0.00	-	0.00	0.00	77.3	0.06	0.03
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	2030	Worker	20	40	18.50	1.13	0.26	3.06	0.00	-	0.00	0.00	-	0.00	0.00	77.3	0.06	0.03
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	2031	Worker	20	40	18.50	1.07	0.25	2.88	0.00	-	0.00	0.00	-	0.00	0.00	76.4	0.06	0.03
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Worker	20	40	18.50	1.02	0.24	2.73	0.00	-	0.00	0.00	-	0.00	0.00	75.5	0.06	0.03
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	2029	Worker	30	60	18.50	1.19	0.27	3.24	0.00	-	0.00	0.00	-	0.00	0.00	78.3	0.07	0.03
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	2030	Worker	20	40	18.50	1.13	0.26	3.06	0.00	-	0.00	0.00	-	0.00	0.00	77.3	0.06	0.03
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	2030	Worker	20	40	18.50	1.13	0.26	3.06	0.00	-	0.00	0.00	-	0.00	0.00	77.3	0.06	0.03
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	10/29/2030	12/24/2030	6	49	20	2030	Worker	26	52	18.50	1.13	0.26	3.06	0.00	-	0.00	0.00	-	0.00	0.00	77.3	0.06	0.03
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	2030	Worker	26	52	18.50	1.13	0.26	3.06	0.00	-	0.00	0.00	-	0.00	0.00	77.3	0.06	0.03
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	12/20/2031	1/20/2032	6	27	20	2031	Worker	26	52	18.50	1.07	0.25	2.88	0.00	-	0.00	0.00	-	0.00	0.00	76.4	0.06	0.03
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	2032	Worker	28	56	18.50	1.02	0.24	2.73	0.00	-	0.00	0.00	-	0.00	0.00	75.5	0.06	0.03
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Worker	20	40	18.50	1.02	0.24	2.73	0.00	-	0.00	0.00	-	0.00	0.00	75.5	0.06	0.03
Segment 6-Reach 3 Portal to MSF-Paving	7/19/2032	7/14/2033	6	310	20	2032	Worker	8	16	18.50	1.02	0.24	2.73	0.00	-	0.00	0.00	-	0.00	0.00	75.5	0.06	0.03
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Worker	20	40	18.50	1.13	0.26	3.06	0.00	-	0.00	0.00	-	0.00	0.00	77.3	0.06	0.03
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	2030	Worker	26	52	18.50	1.13	0.26	3.06	0.00	-	0.00	0.00	-	0.00	0.00	77.3	0.06	0.03
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	2030	Worker	20	40	18.50	1.13	0.26	3.06	0.00	-	0.00	0.00	-	0.00	0.00	77.3	0.06	0.03
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	2030	Worker	20	40	18.50	1.13	0.26	3.06	0.00	-	0.00	0.00	-	0.00	0.00	77.3	0.06	0.03
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	2030	Worker	20	40	18.50	1.13	0.26	3.06	0.00	-	0.00	0.00	-	0.00	0.00	77.3	0.06	0.03
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Worker	20	40	18.50	1.31	0.30	3.64	0.00	-	0.00	0.00	-	0.00	0.00	80.5	0.08	0.03
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Worker	26	52	18.50	1.26	0.28	3.44	0.00	-	0.00	0.00	-	0.00	0.00	79.4	0.07	0.03
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	2029	Worker	20	40	18.50	1.19	0.27	3.24	0.00	-	0.00	0.00	-	0.00	0.00	78.3	0.07	0.03
Metro E Line Stn_U-Alt5-TBM Pass Through-Maintenance	8/1/2030	9/30/2030	6	52	20	2030	Worker	6	12	18.50	1.13	0.26	3.06	0.00	-	0.00	0.00	-	0.00	0.00	77.3	0.06	0.03
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	2030	Worker	30	60	18.50	1.13	0.26	3.06	0.00	-	0.00	0.00	-	0.00	0.00	77.3	0.06	0.03
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	2031	Worker	20	40	18.50	1.07	0.25	2.88	0.00	-	0.00	0.00	-	0.00	0.00	76.4	0.06	0.03
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	2034	Worker	14	28	18.50	0.92	0.22	2.45	0.00	-	0.00	0.00	-	0.00	0.00	73.9	0.05	0.03
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	2028	Worker	20	40	18.50	1.26	0.28	3.44	0.00	-	0.00	0.00	-	0.00	0.00	79.4	0.07	0.03
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	2029	Worker	26	52	18.50	1.19	0.27	3.24	0.00	-	0.00	0.00	-	0.00	0.00	78.3	0.07	0.03
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	2029	Worker	20	40	18.50	1.19	0.27	3.24	0.00	-	0.00	0.00	-	0.00	0.00	78.3	0.07	0.03
Santa Monica Stn_U-Alt5-TBM Pass Through-Maintenance	3/1/2031	4/30/2031	6	52	20	2031	Worker	6	12	18.50	1.07	0.25	2.88	0.00	-	0.00	0.00	-	0.00	0.00	76.4	0.06	0.03
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	2030	Worker	30	60	18.50	1.13	0.26	3.06	0.00	-	0.00	0.00	-	0.00	0.00	77.3	0.06	0.03
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	2032	Worker	20	40	18.50	1.02	0.24	2.73	0.00	-	0.00	0.00	-	0.00	0.00	75.5	0.06	0.03

Sepulveda Transit Corridor Project - ALTERNATIVE 5

WORKER VEHICLES (OFFSITE)

											Daily Emissions (lb/day)												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Workers per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	2028	Worker	20	40	18.50	0.14	0.15	2.02	0.00	0.52	0.00	0.52	0.13	0.00	0.13	531	0.01	0.01
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	2029	Worker	26	52	18.50	0.17	0.18	2.48	0.01	0.67	0.00	0.68	0.17	0.00	0.17	684	0.02	0.02
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	2029	Worker	20	40	18.50	0.13	0.14	1.90	0.00	0.52	0.00	0.52	0.13	0.00	0.13	526	0.01	0.01
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	2029	Worker	20	40	18.50	0.13	0.14	1.90	0.00	0.52	0.00	0.52	0.13	0.00	0.13	526	0.01	0.01
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	2029	Worker	30	60	18.50	0.20	0.21	2.86	0.01	0.78	0.00	0.78	0.20	0.00	0.20	789	0.02	0.02
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	2030	Worker	24	48	18.50	0.15	0.15	2.15	0.01	0.62	0.00	0.63	0.16	0.00	0.16	625	0.01	0.01
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	2032	Worker	30	60	18.50	0.16	0.16	2.40	0.01	0.78	0.00	0.78	0.20	0.00	0.20	769	0.01	0.02
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	4/15/2030	6/11/2032	7	789	20	2030	Worker	8	16	19.50	0.05	0.05	0.75	0.00	0.22	0.00	0.22	0.06	0.00	0.06	220	0.00	0.01
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	6/12/2032	11/28/2033	7	535	20	2032	Worker	10	20	19.50	0.05	0.05	0.84	0.00	0.27	0.00	0.27	0.07	0.00	0.07	270	0.01	0.01
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	12/1/2033	7/13/2034	7	225	20	2033	Worker	20	40	18.50	0.10	0.09	1.52	0.00	0.52	0.00	0.52	0.13	0.00	0.13	509	0.01	0.01
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Worker	30	60	18.50	0.21	0.23	3.04	0.01	0.78	0.00	0.78	0.20	0.00	0.20	797	0.02	0.02
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	2029	Worker	24	48	18.50	0.16	0.17	2.29	0.01	0.62	0.00	0.63	0.16	0.00	0.16	631	0.01	0.02
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	2033	Worker	30	60	18.50	0.15	0.14	2.28	0.01	0.78	0.00	0.78	0.20	0.00	0.20	763	0.01	0.02
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	3/1/2029	2/14/2033	7	1447	20	2029	Worker	8	16	18.50	0.05	0.06	0.76	0.00	0.21	0.00	0.21	0.05	0.00	0.05	210	0.00	0.01
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Slabs, Walkways, Plenum	8/23/2032	12/14/2034	7	844	20	2032	Worker	10	20	18.50	0.05	0.05	0.80	0.00	0.26	0.00	0.26	0.07	0.00	0.07	256	0.00	0.01
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	2034	Worker	20	40	18.50	0.10	0.09	1.44	0.00	0.52	0.00	0.52	0.13	0.00	0.13	505	0.01	0.01
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	2027	Worker	20	40	18.50	0.15	0.17	2.15	0.01	0.52	0.00	0.52	0.13	0.00	0.13	537	0.01	0.01
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	2028	Worker	26	52	18.50	0.18	0.20	2.63	0.01	0.67	0.00	0.68	0.17	0.00	0.17	691	0.02	0.02
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	2028	Worker	20	40	18.50	0.14	0.15	2.02	0.00	0.52	0.00	0.52	0.13	0.00	0.13	531	0.01	0.01
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	2028	Worker	20	40	18.50	0.14	0.15	2.02	0.00	0.52	0.00	0.52	0.13	0.00	0.13	531	0.01	0.01
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Worker	30	60	18.50	0.21	0.23	3.04	0.01	0.78	0.00	0.78	0.20	0.00	0.20	797	0.02	0.02
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	2029	Worker	24	48	18.50	0.16	0.17	2.29	0.01	0.62	0.00	0.63	0.16	0.00	0.16	631	0.01	0.02
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	2032	Worker	30	60	18.50	0.16	0.16	2.40	0.01	0.78	0.00	0.78	0.20	0.00	0.20	769	0.01	0.02
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	4/3/2029	2/19/2032	7	1053	20	2029	Worker	8	16	18.50	0.05	0.06	0.76	0.00	0.21	0.00	0.21	0.05	0.00	0.05	210	0.00	0.01
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Slabs, Walkways, Plenum	9/23/2031	5/18/2033	7	604	20	2031	Worker	10	20	18.50	0.06	0.06	0.85	0.00	0.26	0.00	0.26	0.07	0.00	0.07	258	0.01	0.01
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	2033	Worker	20	40	18.50	0.10	0.09	1.52	0.00	0.52	0.00	0.52	0.13	0.00	0.13	509	0.01	0.01
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	2030	Worker	20	40	18.50	0.12	0.13	1.80	0.00	0.52	0.00	0.52	0.13	0.00	0.13	521	0.01	0.01
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	2030	Worker	26	52	18.50	0.16	0.16	2.33	0.01	0.67	0.00	0.68	0.17	0.00	0.17	678	0.01	0.02
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	2030	Worker	20	40	18.50	0.12	0.13	1.80	0.00	0.52	0.00	0.52	0.13	0.00	0.13	521	0.01	0.01
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	2031	Worker	20	40	18.50	0.12	0.11	1.69	0.00	0.52	0.00	0.52	0.13	0.00	0.13	517	0.01	0.01
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Worker	20	40	18.50	0.11	0.10	1.60	0.00	0.52	0.00	0.52	0.13	0.00	0.13	513	0.01	0.01
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	2029	Worker	30	60	18.50	0.20	0.21	2.86	0.01	0.78	0.00	0.78	0.20	0.00	0.20	789	0.02	0.02
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	2030	Worker	20	40	18.50	0.12	0.13	1.80	0.00	0.52	0.00	0.52	0.13	0.00	0.13	521	0.01	0.01
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	2030	Worker	20	40	18.50	0.12	0.13	1.80	0.00	0.52	0.00	0.52	0.13	0.00	0.13	521	0.01	0.01
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	10/29/2030	12/24/2030	6	49	20	2030	Worker	26	52	18.50	0.16	0.16	2.33	0.01	0.67	0.00	0.68	0.17	0.00	0.17	678	0.01	0.02
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	2030	Worker	26	52	18.50	0.16	0.16	2.33	0.01	0.67	0.00	0.68	0.17	0.00	0.17	678	0.01	0.02
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	12/20/2031	1/20/2032	6	27	20	2031	Worker	26	52	18.50	0.15	0.15	2.20	0.01	0.67	0.00	0.68	0.17	0.00	0.17	672	0.01	0.02
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	2032	Worker	28	56	18.50	0.15	0.14	2.24	0.01	0.73	0.00	0.73	0.18	0.00	0.19	718	0.01	0.02
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Worker	20	40	18.50	0.11	0.10	1.60	0.00	0.52	0.00	0.52	0.13	0.00	0.13	513	0.01	0.01
Segment 6-Reach 3 Portal to MSF-Paving	7/19/2032	7/14/2033	6	310	20	2032	Worker	8	16	18.50	0.04	0.04	0.64	0.00	0.21	0.00	0.21	0.05	0.00	0.05	205	0.00	0.00
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Worker	20	40	18.50	0.12	0.13	1.80	0.00	0.52	0.00	0.52	0.13	0.00	0.13	521	0.01	0.01
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	2030	Worker	26	52	18.50	0.16	0.16	2.33	0.01	0.67	0.00	0.68	0.17	0.00	0.17	678	0.01	0.02
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	2030	Worker	20	40	18.50	0.12	0.13	1.80	0.00	0.52	0.00	0.52	0.13	0.00	0.13	521	0.01	0.01
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	2030	Worker	20	40	18.50	0.12	0.13	1.80	0.00	0.52	0.00	0.52	0.13	0.00	0.13	521	0.01	0.01
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	2030	Worker	20	40	18.50	0.12	0.13	1.80	0.00	0.52	0.00	0.52	0.13	0.00	0.13	521	0.01	0.01
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Worker	20	40	18.50	0.15	0.17	2.15	0.01	0.52	0.00	0.52	0.13	0.00	0.13	537	0.01	0.01
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Worker	26	52	18.50	0.18	0.20	2.63	0.01	0.67	0.00	0.68	0.17	0.00	0.17	691	0.02	0.02
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	2029	Worker	20	40	18.50	0.13	0.14	1.90	0.00	0.52	0.00	0.52	0.13	0.00	0.13	526	0.01	0.01
Metro E Line Stn_U-Alt5-TBM Pass Through-Maintenance	8/1/2030	9/30/2030	6	52	20	2030	Worker	6	12	18.50	0.04	0.04	0.54	0.00	0.16	0.00	0.16	0.04	0.00	0.04	156	0.00	0.00
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	2030	Worker	30	60	18.50	0.18	0.19	2.69	0.01	0.78	0.00	0.78	0.20	0.00	0.20	782	0.02	0.02
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	2031	Worker	20	40	18.50	0.12	0.11	1.69	0.00	0.52	0.00	0.52	0.13	0.00	0.13	517	0.01	0.01
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	2034	Worker	14	28	18.50	0.07	0.06	1.01	0.00	0.36	0.00	0.36	0.09	0.00	0.09	354	0.01	0.01
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	2028	Worker	20	40	18.50	0.14	0.15	2.02	0.00	0.52	0.00	0.52	0.13	0.00	0.13	531	0.01	0.01
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	2029	Worker	26	52	18.50	0.17	0.18	2.48	0.01	0.67	0.00	0.68	0.17	0.00	0.17	684	0.02	0.02
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	2029	Worker	20	40	18.50	0.13	0.14	1.90	0.00	0.52	0.00	0.52	0.13	0.00	0.13	526	0.01	0.01
Santa Monica Stn_U-Alt5-TBM Pass Through-Maintenance	3/1/2031	4/30/2031	6	52	20	2031	Worker	6	12	18.50	0.03	0.03	0.51	0.00	0.16	0.00	0.16	0.04	0.00	0.04	155	0.00	0.00
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	2030	Worker	30	60	18.50	0.18	0.19	2.69	0.01	0.78	0.00	0.78	0.20	0.00	0.20	782	0.02	0.02
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	2032	Worker	20	40	18.50	0.11	0.10	1.60	0.00	0.52	0.00	0.52	0.13	0.00	0.13	513	0.01	0.01

Sepulveda Transit Corridor Project - ALTERNATIVE 5

WORKER VEHICLES (OFFSITE)

											Total Emissions (tons)											Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Workers per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	2028	Worker	20	40	18.50	0.01	0.01	0.08	0.00	0.02	0.00	0.02	0.01	0.00	0.01	19.0	0.00	0.00	19.2
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	2029	Worker	26	52	18.50	0.01	0.01	0.13	0.00	0.03	0.00	0.03	0.01	0.00	0.01	31.9	0.00	0.00	32.2
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	2029	Worker	20	40	18.50	0.01	0.01	0.10	0.00	0.03	0.00	0.03	0.01	0.00	0.01	24.8	0.00	0.00	25.0
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	2029	Worker	20	40	18.50	0.00	0.00	0.05	0.00	0.01	0.00	0.01	0.00	0.00	0.00	12.9	0.00	0.00	13.0
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	2029	Worker	30	60	18.50	0.01	0.01	0.17	0.00	0.05	0.00	0.05	0.01	0.00	0.01	42.9	0.00	0.00	43.3
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	2030	Worker	24	48	18.50	0.06	0.06	0.85	0.00	0.25	0.00	0.25	0.06	0.00	0.06	223.6	0.00	0.01	225.2
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	2032	Worker	30	60	18.50	0.01	0.01	0.11	0.00	0.03	0.00	0.03	0.01	0.00	0.01	30.7	0.00	0.00	30.9
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	4/15/2030	6/11/2032	7	789	20	2030	Worker	8	16	19.50	0.02	0.02	0.30	0.00	0.09	0.00	0.09	0.02	0.00	0.02	78.6	0.00	0.00	79.2
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	6/12/2032	11/28/2033	7	535	20	2032	Worker	10	20	19.50	0.01	0.01	0.22	0.00	0.07	0.00	0.07	0.02	0.00	0.02	65.5	0.00	0.00	66.0
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	12/1/2033	7/13/2034	7	225	20	2033	Worker	20	40	18.50	0.01	0.01	0.17	0.00	0.06	0.00	0.06	0.01	0.00	0.01	51.9	0.00	0.00	52.3
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Worker	30	60	18.50	0.01	0.01	0.19	0.00	0.05	0.00	0.05	0.01	0.00	0.01	44.1	0.00	0.00	44.5
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	2029	Worker	24	48	18.50	0.11	0.12	1.67	0.00	0.45	0.00	0.46	0.11	0.00	0.12	417.7	0.01	0.01	421.0
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	2033	Worker	30	60	18.50	0.01	0.01	0.10	0.00	0.04	0.00	0.04	0.01	0.00	0.01	31.2	0.00	0.00	31.4
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	3/1/2029	2/14/2033	7	1447	20	2029	Worker	8	16	18.50	0.04	0.04	0.55	0.00	0.15	0.00	0.15	0.04	0.00	0.04	138.1	0.00	0.00	139.2
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Slabs, Walkways, Plenum	8/23/2032	12/14/2034	7	844	20	2032	Worker	10	20	18.50	0.02	0.02	0.34	0.00	0.11	0.00	0.11	0.03	0.00	0.03	98.1	0.00	0.00	98.8
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	2034	Worker	20	40	18.50	0.02	0.02	0.28	0.00	0.10	0.00	0.10	0.03	0.00	0.03	90.1	0.00	0.00	90.7
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	2027	Worker	20	40	18.50	0.01	0.01	0.08	0.00	0.02	0.00	0.02	0.01	0.00	0.01	19.2	0.00	0.00	19.4
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	2028	Worker	26	52	18.50	0.01	0.01	0.14	0.00	0.03	0.00	0.03	0.01	0.00	0.01	32.3	0.00	0.00	32.5
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	2028	Worker	20	40	18.50	0.01	0.01	0.11	0.00	0.03	0.00	0.03	0.01	0.00	0.01	25.5	0.00	0.00	25.8
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	2028	Worker	20	40	18.50	0.00	0.00	0.03	0.00	0.01	0.00	0.01	0.00	0.00	0.00	6.3	0.00	0.00	6.3
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Worker	30	60	18.50	0.01	0.01	0.19	0.00	0.05	0.00	0.05	0.01	0.00	0.01	44.1	0.00	0.00	44.5
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	2029	Worker	24	48	18.50	0.09	0.09	1.27	0.00	0.35	0.00	0.35	0.09	0.00	0.09	318.9	0.01	0.01	321.4
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	2032	Worker	30	60	18.50	0.01	0.01	0.11	0.00	0.04	0.00	0.04	0.01	0.00	0.01	31.4	0.00	0.00	31.6
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	4/3/2029	2/19/2032	7	1053	20	2029	Worker	8	16	18.50	0.03	0.03	0.40	0.00	0.11	0.00	0.11	0.03	0.00	0.03	100.5	0.00	0.00	101.3
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Slabs, Walkways, Plenum	9/23/2031	5/18/2033	7	604	20	2031	Worker	10	20	18.50	0.02	0.02	0.26	0.00	0.08	0.00	0.08	0.02	0.00	0.02	70.8	0.00	0.00	71.3
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	2033	Worker	20	40	18.50	0.02	0.02	0.30	0.00	0.10	0.00	0.10	0.03	0.00	0.03	90.3	0.00	0.00	90.9
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	2030	Worker	20	40	18.50	0.00	0.00	0.07	0.00	0.02	0.00	0.02	0.00	0.00	0.01	18.0	0.00	0.00	18.1
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	2030	Worker	26	52	18.50	0.01	0.01	0.18	0.00	0.05	0.00	0.05	0.01	0.00	0.01	48.6	0.00	0.00	48.9
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	2030	Worker	20	40	18.50	0.02	0.02	0.23	0.00	0.07	0.00	0.07	0.02	0.00	0.02	61.5	0.00	0.00	61.9
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	2031	Worker	20	40	18.50	0.02	0.02	0.30	0.00	0.09	0.00	0.09	0.02	0.00	0.02	83.4	0.00	0.00	84.0
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Worker	20	40	18.50	0.01	0.01	0.12	0.00	0.04	0.00	0.04	0.01	0.00	0.01	36.0	0.00	0.00	36.3
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	2029	Worker	30	60	18.50	0.01	0.01	0.11	0.00	0.03	0.00	0.03	0.01	0.00	0.01	27.9	0.00	0.00	28.1
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	2030	Worker	20	40	18.50	0.01	0.01	0.21	0.00	0.06	0.00	0.06	0.02	0.00	0.02	55.3	0.00	0.00	55.7
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	2030	Worker	20	40	18.50	0.00	0.00	0.07	0.00	0.02	0.00	0.02	0.00	0.00	0.00	17.3	0.00	0.00	17.4
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	10/29/2030	12/24/2030	6	49	20	2030	Worker	26	52	18.50	0.00	0.00	0.06	0.00	0.02	0.00	0.02	0.00	0.00	0.00	15.1	0.00	0.00	15.2
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	2030	Worker	26	52	18.50	0.02	0.03	0.36	0.00	0.10	0.00	0.10	0.03	0.00	0.03	95.0	0.00	0.00	95.7
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	12/20/2031	1/20/2032	6	27	20	2031	Worker	26	52	18.50	0.00	0.00	0.03	0.00	0.01	0.00	0.01	0.00	0.00	0.00	8.2	0.00	0.00	8.3
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	2032	Worker	28	56	18.50	0.02	0.02	0.26	0.00	0.08	0.00	0.09	0.02	0.00	0.02	76.2	0.00	0.00	76.7
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Worker	20	40	18.50	0.01	0.01	0.12	0.00	0.04	0.00	0.04	0.01	0.00	0.01	36.0	0.00	0.00	36.3
Segment 6-Reach 3 Portal to MSF-Paving	7/19/2032	7/14/2033	6	310	20	2032	Worker	8	16	18.50	0.01	0.01	0.10	0.00	0.03	0.00	0.03	0.01	0.00	0.01	28.8	0.00	0.00	29.0
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Worker	20	40	18.50	0.00	0.00	0.05	0.00	0.01	0.00	0.01	0.00	0.00	0.00	13.2	0.00	0.00	13.3
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	2030	Worker	26	52	18.50	0.00	0.00	0.06	0.00	0.02	0.00	0.02	0.00	0.00	0.00	16.6	0.00	0.00	16.7
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	2030	Worker	20	40	18.50	0.00	0.00	0.05	0.00	0.01	0.00	0.01	0.00	0.00	0.00	12.3	0.00	0.00	12.4
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	2030	Worker	20	40	18.50	0.00	0.00	0.02	0.00	0.01	0.00	0.01	0.00	0.00	0.00	6.1	0.00	0.00	6.2
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	2030	Worker	20	40	18.50	0.02	0.02	0.29	0.00	0.08	0.00	0.08	0.02	0.00	0.02	76.8	0.00	0.00	77.4
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Worker	20	40	18.50	0.02	0.02	0.22	0.00	0.05	0.00	0.05	0.01	0.00	0.01	50.7	0.00	0.00	51.1
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Worker	26	52	18.50	0.02	0.03	0.34	0.00	0.09	0.00	0.09	0.02	0.00	0.02	81.8	0.00	0.00	82.4
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	2029	Worker	20	40	18.50	0.02	0.02	0.30	0.00	0.08	0.00	0.08	0.02	0.00	0.02	76.1	0.00	0.00	76.7
Metro E Line Stn_U-Alt5-TBM Pass Through-Maintenance	8/1/2030	9/30/2030	6	52	20	2030	Worker	6	12	18.50	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.7	0.00	0.00	3.7
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	2030	Worker	30	60	18.50	0.06	0.06	0.84	0.00	0.24	0.00	0.24	0.06	0.00	0.06	221.6	0.00	0.01	223.3
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	2031	Worker	20	40	18.50	0.05	0.04	0.66	0.00	0.20	0.00	0.20	0.05	0.00	0.05	183.5	0.00	0.00	184.8
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	2034	Worker	14	28	18.50	0.00	0.00	0.03	0.00	0.01	0.00	0.01	0.00	0.00	0.00	9.1	0.00	0.00	9.2
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	2028	Worker	20	40	18.50	0.01	0.02	0.21	0.00	0.05	0.00	0.05	0.01	0.00	0.01	49.4	0.00	0.00	49.8
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	2029	Worker	26	52	18.50	0.02	0.02	0.33	0.00	0.09	0.00	0.09	0.02	0.00	0.02	81.6	0.00	0.00	82.2
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	2029	Worker	20	40	18.50	0.02	0.02	0.30	0.00	0.08	0.00	0.08	0.02	0.00	0.02	74.2	0.00	0.00	74.8
Santa Monica Stn_U-Alt5-TBM Pass Through-Maintenance	3/1/2031	4/30/2031	6	52	20	2031	Worker	6	12	18.50	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.7	0.00	0.00	3.7
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	2030	Worker	30	60	18.50	0.06	0.06	0.83	0.00	0.24	0.00	0.24	0.06	0.00	0.06	219.9	0.00	0.01	221.5
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	2032	Worker	20	40	18.50	0.04	0.04	0.62	0.00	0.20	0.00	0.20	0.05	0.00	0.05	180.2	0.00	0.00	181.5

Sepulveda Transit Corridor Project - ALTERNATIVE 5

WORKER VEHICLES (OFFSITE)

											Running Emission Factor (g/mile)[1,2]													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Workers per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	2029	Worker	20	40	18.50	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.2	0.00	0.01
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	2030	Worker	26	52	18.50	0.01	0.06	0.94	0.00	0.32	0.00	0.32	0.08	0.00	0.08	315.3	0.00	0.01
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	2030	Worker	20	40	18.50	0.01	0.06	0.94	0.00	0.32	0.00	0.32	0.08	0.00	0.08	315.3	0.00	0.01
D Line Wilshire-Westwood Stn_U-Alt5-TBM Pass Through-Maintenance	10/1/2031	11/30/2031	6	52	20	2031	Worker	6	12	18.50	0.01	0.06	0.88	0.00	0.32	0.00	0.32	0.08	0.00	0.08	312.6	0.00	0.01
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	2031	Worker	30	60	18.50	0.01	0.06	0.88	0.00	0.32	0.00	0.32	0.08	0.00	0.08	312.6	0.00	0.01
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	2033	Worker	20	40	18.50	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.9	0.00	0.00
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	2028	Worker	20	40	18.50	0.02	0.08	1.05	0.00	0.32	0.00	0.32	0.08	0.00	0.08	321.4	0.00	0.01
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	2029	Worker	26	52	18.50	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.2	0.00	0.01
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	2029	Worker	20	40	18.50	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.2	0.00	0.01
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	2031	Worker	30	60	18.50	0.01	0.06	0.88	0.00	0.32	0.00	0.32	0.08	0.00	0.08	312.6	0.00	0.01
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	2033	Worker	30	60	18.50	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.9	0.00	0.00
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	2033	Worker	20	40	18.50	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.9	0.00	0.00
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	2026	Worker	20	40	18.50	0.02	0.09	1.20	0.00	0.32	0.00	0.32	0.08	0.00	0.08	328.5	0.01	0.01
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	2026	Worker	26	52	18.50	0.02	0.09	1.20	0.00	0.32	0.00	0.32	0.08	0.00	0.08	328.5	0.01	0.01
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	2027	Worker	20	40	18.50	0.02	0.09	1.12	0.00	0.32	0.00	0.32	0.08	0.00	0.08	324.8	0.00	0.01
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	2028	Worker	30	60	18.50	0.02	0.08	1.05	0.00	0.32	0.00	0.32	0.08	0.00	0.08	321.4	0.00	0.01
Ventura Blvd Stn_U-Alt5-Mobilize/Launch Reach 2 TBM	10/1/2028	1/30/2029	7	122	20	2028	Worker	-	-	18.50	0.02	0.08	1.05	0.00	0.32	0.00	0.32	0.08	0.00	0.08	321.4	0.00	0.01
Ventura Blvd Stn_U-Alt5-Retrieve/Demob Reach 3 TBM	2/19/2032	5/18/2032	7	90	20	2032	Worker	-	-	18.50	0.01	0.05	0.83	0.00	0.32	0.00	0.32	0.08	0.00	0.08	310.2	0.00	0.01
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	2031	Worker	30	60	18.50	0.01	0.06	0.88	0.00	0.32	0.00	0.32	0.08	0.00	0.08	312.6	0.00	0.01
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	2033	Worker	20	40	18.50	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.9	0.00	0.00
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	2035	Worker	14	28	18.50	0.01	0.04	0.72	0.00	0.32	0.00	0.32	0.08	0.00	0.08	304.0	0.00	0.00
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	2027	Worker	20	40	18.50	0.02	0.09	1.12	0.00	0.32	0.00	0.32	0.08	0.00	0.08	324.8	0.00	0.01
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	2027	Worker	26	52	18.50	0.02	0.09	1.12	0.00	0.32	0.00	0.32	0.08	0.00	0.08	324.8	0.00	0.01
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	2029	Worker	20	40	18.50	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.2	0.00	0.01
Sepulveda-Metro G Line Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2030	10/31/2030	6	52	20	2030	Worker	6	12	18.50	0.01	0.06	0.94	0.00	0.32	0.00	0.32	0.08	0.00	0.08	315.3	0.00	0.01
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	2030	Worker	30	60	18.50	0.01	0.06	0.94	0.00	0.32	0.00	0.32	0.08	0.00	0.08	315.3	0.00	0.01
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	2031	Worker	20	40	18.50	0.01	0.06	0.88	0.00	0.32	0.00	0.32	0.08	0.00	0.08	312.6	0.00	0.01
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	2026	Worker	20	40	18.50	0.02	0.09	1.20	0.00	0.32	0.00	0.32	0.08	0.00	0.08	328.5	0.01	0.01
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	2027	Worker	26	52	18.50	0.02	0.09	1.12	0.00	0.32	0.00	0.32	0.08	0.00	0.08	324.8	0.00	0.01
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	2028	Worker	20	40	18.50	0.02	0.08	1.05	0.00	0.32	0.00	0.32	0.08	0.00	0.08	321.4	0.00	0.01
Sherman Way Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2029	10/31/2029	6	52	10	2029	Worker	6	12	18.50	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.2	0.00	0.01
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	2029	Worker	30	60	18.50	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.2	0.00	0.01
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	2030	Worker	20	40	18.50	0.01	0.06	0.94	0.00	0.32	0.00	0.32	0.08	0.00	0.08	315.3	0.00	0.01
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	2033	Worker	14	28	18.50	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.9	0.00	0.00
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	2029	Worker	20	40	18.50	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.2	0.00	0.01
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	2030	Worker	30	60	18.50	0.01	0.06	0.94	0.00	0.32	0.00	0.32	0.08	0.00	0.08	315.3	0.00	0.01
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	2030	Worker	36	72	18.50	0.01	0.06	0.94	0.00	0.32	0.00	0.32	0.08	0.00	0.08	315.3	0.00	0.01
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	2031	Worker	46	92	18.50	0.01	0.06	0.88	0.00	0.32	0.00	0.32	0.08	0.00	0.08	312.6	0.00	0.01
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	2032	Worker	14	28	18.50	0.01	0.05	0.83	0.00	0.32	0.00	0.32	0.08	0.00	0.08	310.2	0.00	0.01
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Worker	8	16	18.50	0.01	0.04	0.75	0.00	0.32	0.00	0.32	0.08	0.00	0.08	305.8	0.00	0.00
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Worker	8	16	18.50	0.01	0.04	0.75	0.00	0.32	0.00	0.32	0.08	0.00	0.08	305.8	0.00	0.00
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Worker	10	20	18.50	0.01	0.04	0.75	0.00	0.32	0.00	0.32	0.08	0.00	0.08	305.8	0.00	0.00
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Worker	8	16	18.50	0.01	0.04	0.75	0.00	0.32	0.00	0.32	0.08	0.00	0.08	305.8	0.00	0.00
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Worker	16	32	18.50	0.01	0.05	0.83	0.00	0.32	0.00	0.32	0.08	0.00	0.08	310.2	0.00	0.01
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Worker	18	36	18.50	0.01	0.05	0.83	0.00	0.32	0.00	0.32	0.08	0.00	0.08	310.2	0.00	0.01
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Worker	20	40	18.50	0.01	0.05	0.83	0.00	0.32	0.00	0.32	0.08	0.00	0.08	310.2	0.00	0.01
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Worker	24	48	18.50	0.01	0.05	0.83	0.00	0.32	0.00	0.32	0.08	0.00	0.08	310.2	0.00	0.01
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Worker	16	32	18.50	0.01	0.04	0.75	0.00	0.32	0.00	0.32	0.08	0.00	0.08	305.8	0.00	0.00
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Worker	4	8	18.50	0.01	0.04	0.75	0.00	0.32	0.00	0.32	0.08	0.00	0.08	305.8	0.00	0.00
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Worker	16	32	18.50	0.01	0.05	0.83	0.00	0.32	0.00	0.32	0.08	0.00	0.08	310.2	0.00	0.01
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	2028	Worker	38	76	18.50	0.02	0.08	1.05	0.00	0.32	0.00	0.32	0.08	0.00	0.08	321.4	0.00	0.01
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Worker	24	48	18.50	0.02	0.08	1.05	0.00	0.32	0.00	0.32	0.08	0.00	0.08	321.4	0.00	0.01
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Worker	24	48	18.50	0.02	0.08	1.05	0.00	0.32	0.00	0.32	0.08	0.00	0.08	321.4	0.00	0.01

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Fleet Mix:** Light-Duty Mix (25% LDA/50% LDT1/25% LDT2); **Fuel Type:** Gasoline
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 5

WORKER VEHICLES (OFFSITE)

											Non-Running Emission Factor (g/trip)[1,3]													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Workers per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	2029	Worker	20	40	18.50	1.19	0.27	3.24	0.00	-	0.00	0.00	-	0.00	0.00	78.3	0.07	0.03
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	2030	Worker	26	52	18.50	1.13	0.26	3.06	0.00	-	0.00	0.00	-	0.00	0.00	77.3	0.06	0.03
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	2030	Worker	20	40	18.50	1.13	0.26	3.06	0.00	-	0.00	0.00	-	0.00	0.00	77.3	0.06	0.03
D Line Wilshire-Westwood Stn_U-Alt5-TBM Pass Through-Maintenance	10/1/2031	11/30/2031	6	52	20	2031	Worker	6	12	18.50	1.07	0.25	2.88	0.00	-	0.00	0.00	-	0.00	0.00	76.4	0.06	0.03
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	2031	Worker	30	60	18.50	1.07	0.25	2.88	0.00	-	0.00	0.00	-	0.00	0.00	76.4	0.06	0.03
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	2033	Worker	20	40	18.50	0.98	0.23	2.59	0.00	-	0.00	0.00	-	0.00	0.00	74.6	0.05	0.03
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	2028	Worker	20	40	18.50	1.26	0.28	3.44	0.00	-	0.00	0.00	-	0.00	0.00	79.4	0.07	0.03
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	2029	Worker	26	52	18.50	1.19	0.27	3.24	0.00	-	0.00	0.00	-	0.00	0.00	78.3	0.07	0.03
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	2029	Worker	20	40	18.50	1.19	0.27	3.24	0.00	-	0.00	0.00	-	0.00	0.00	78.3	0.07	0.03
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	2031	Worker	30	60	18.50	1.07	0.25	2.88	0.00	-	0.00	0.00	-	0.00	0.00	76.4	0.06	0.03
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	2033	Worker	30	60	18.50	0.98	0.23	2.59	0.00	-	0.00	0.00	-	0.00	0.00	74.6	0.05	0.03
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	2033	Worker	20	40	18.50	0.98	0.23	2.59	0.00	-	0.00	0.00	-	0.00	0.00	74.6	0.05	0.03
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	2026	Worker	20	40	18.50	1.38	0.31	3.88	0.00	-	0.00	0.00	-	0.00	0.00	81.7	0.08	0.03
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	2026	Worker	26	52	18.50	1.38	0.31	3.88	0.00	-	0.00	0.00	-	0.00	0.00	81.7	0.08	0.03
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	2027	Worker	20	40	18.50	1.31	0.30	3.64	0.00	-	0.00	0.00	-	0.00	0.00	80.5	0.08	0.03
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	2028	Worker	30	60	18.50	1.26	0.28	3.44	0.00	-	0.00	0.00	-	0.00	0.00	79.4	0.07	0.03
Ventura Blvd Stn_U-Alt5-Mobilize/Launch Reach 2 TBM	10/1/2028	1/30/2029	7	122	20	2028	Worker	-	-	18.50	1.26	0.28	3.44	0.00	-	0.00	0.00	-	0.00	0.00	79.4	0.07	0.03
Ventura Blvd Stn_U-Alt5-Retrieve/Demob Reach 3 TBM	2/19/2032	5/18/2032	7	90	20	2032	Worker	-	-	18.50	1.02	0.24	2.73	0.00	-	0.00	0.00	-	0.00	0.00	75.5	0.06	0.03
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	2031	Worker	30	60	18.50	1.07	0.25	2.88	0.00	-	0.00	0.00	-	0.00	0.00	76.4	0.06	0.03
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	2033	Worker	20	40	18.50	0.98	0.23	2.59	0.00	-	0.00	0.00	-	0.00	0.00	74.6	0.05	0.03
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	2035	Worker	14	28	18.50	0.91	0.21	2.33	0.00	-	0.00	0.00	-	0.00	0.00	73.1	0.05	0.03
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	2027	Worker	20	40	18.50	1.31	0.30	3.64	0.00	-	0.00	0.00	-	0.00	0.00	80.5	0.08	0.03
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	2027	Worker	26	52	18.50	1.31	0.30	3.64	0.00	-	0.00	0.00	-	0.00	0.00	80.5	0.08	0.03
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	2029	Worker	20	40	18.50	1.19	0.27	3.24	0.00	-	0.00	0.00	-	0.00	0.00	78.3	0.07	0.03
Sepulveda-Metro G Line Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2030	10/31/2030	6	52	20	2030	Worker	6	12	18.50	1.13	0.26	3.06	0.00	-	0.00	0.00	-	0.00	0.00	77.3	0.06	0.03
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	2030	Worker	30	60	18.50	1.13	0.26	3.06	0.00	-	0.00	0.00	-	0.00	0.00	77.3	0.06	0.03
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	2031	Worker	20	40	18.50	1.07	0.25	2.88	0.00	-	0.00	0.00	-	0.00	0.00	76.4	0.06	0.03
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	2026	Worker	20	40	18.50	1.38	0.31	3.88	0.00	-	0.00	0.00	-	0.00	0.00	81.7	0.08	0.03
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	2027	Worker	26	52	18.50	1.31	0.30	3.64	0.00	-	0.00	0.00	-	0.00	0.00	80.5	0.08	0.03
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	2028	Worker	20	40	18.50	1.26	0.28	3.44	0.00	-	0.00	0.00	-	0.00	0.00	79.4	0.07	0.03
Sherman Way Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2029	10/31/2029	6	52	10	2029	Worker	6	12	18.50	1.19	0.27	3.24	0.00	-	0.00	0.00	-	0.00	0.00	78.3	0.07	0.03
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	2029	Worker	30	60	18.50	1.19	0.27	3.24	0.00	-	0.00	0.00	-	0.00	0.00	78.3	0.07	0.03
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	2030	Worker	20	40	18.50	1.13	0.26	3.06	0.00	-	0.00	0.00	-	0.00	0.00	77.3	0.06	0.03
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	2033	Worker	14	28	18.50	0.98	0.23	2.59	0.00	-	0.00	0.00	-	0.00	0.00	74.6	0.05	0.03
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	2029	Worker	20	40	18.50	1.19	0.27	3.24	0.00	-	0.00	0.00	-	0.00	0.00	78.3	0.07	0.03
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	2030	Worker	30	60	18.50	1.13	0.26	3.06	0.00	-	0.00	0.00	-	0.00	0.00	77.3	0.06	0.03
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	2030	Worker	36	72	18.50	1.13	0.26	3.06	0.00	-	0.00	0.00	-	0.00	0.00	77.3	0.06	0.03
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	2031	Worker	46	92	18.50	1.07	0.25	2.88	0.00	-	0.00	0.00	-	0.00	0.00	76.4	0.06	0.03
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	2032	Worker	14	28	18.50	1.02	0.24	2.73	0.00	-	0.00	0.00	-	0.00	0.00	75.5	0.06	0.03
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Worker	8	16	18.50	0.92	0.22	2.45	0.00	-	0.00	0.00	-	0.00	0.00	73.9	0.05	0.03
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Worker	8	16	18.50	0.92	0.22	2.45	0.00	-	0.00	0.00	-	0.00	0.00	73.9	0.05	0.03
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Worker	10	20	18.50	0.92	0.22	2.45	0.00	-	0.00	0.00	-	0.00	0.00	73.9	0.05	0.03
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Worker	8	16	18.50	0.92	0.22	2.45	0.00	-	0.00	0.00	-	0.00	0.00	73.9	0.05	0.03
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Worker	16	32	18.50	1.02	0.24	2.73	0.00	-	0.00	0.00	-	0.00	0.00	75.5	0.06	0.03
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Worker	18	36	18.50	1.02	0.24	2.73	0.00	-	0.00	0.00	-	0.00	0.00	75.5	0.06	0.03
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Worker	20	40	18.50	1.02	0.24	2.73	0.00	-	0.00	0.00	-	0.00	0.00	75.5	0.06	0.03
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Worker	24	48	18.50	1.02	0.24	2.73	0.00	-	0.00	0.00	-	0.00	0.00	75.5	0.06	0.03
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Worker	16	32	18.50	0.92	0.22	2.45	0.00	-	0.00	0.00	-	0.00	0.00	73.9	0.05	0.03
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Worker	4	8	18.50	0.92	0.22	2.45	0.00	-	0.00	0.00	-	0.00	0.00	73.9	0.05	0.03
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Worker	16	32	18.50	1.02	0.24	2.73	0.00	-	0.00	0.00	-	0.00	0.00	75.5	0.06	0.03
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	2028	Worker	38	76	18.50	1.26	0.28	3.44	0.00	-	0.00	0.00	-	0.00	0.00	79.4	0.07	0.03
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Worker	24	48	18.50	1.26	0.28	3.44	0.00	-	0.00	0.00	-	0.00	0.00	79.4	0.07	0.03
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Worker	24	48	18.50	1.26	0.28	3.44	0.00	-	0.00	0.00	-	0.00	0.00	79.4	0.07	0.03

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Fleet Mix:** Light-Duty Mix (25% LDA/50% LDT1/25% LDT2); **Fuel Type:** Gasoline
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 5

WORKER VEHICLES (OFFSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Workers per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Daily Emissions (lb/day)													
											ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	2029	Worker	20	40	18.50	0.13	0.14	1.90	0.00	0.52	0.00	0.52	0.13	0.00	0.13	526	0.01	0.01
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	2030	Worker	26	52	18.50	0.16	0.16	2.33	0.01	0.67	0.00	0.68	0.17	0.00	0.17	678	0.01	0.02
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	2030	Worker	20	40	18.50	0.12	0.13	1.80	0.00	0.52	0.00	0.52	0.13	0.00	0.13	521	0.01	0.01
D Line Wilshire-Westwood Stn_U-Alt5-TBM Pass Through-Maintenance	10/1/2031	11/30/2031	6	52	20	2031	Worker	6	12	18.50	0.03	0.03	0.51	0.00	0.16	0.00	0.16	0.04	0.00	0.04	155	0.00	0.00
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	2031	Worker	30	60	18.50	0.17	0.17	2.54	0.01	0.78	0.00	0.78	0.20	0.00	0.20	775	0.02	0.02
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	2033	Worker	20	40	18.50	0.10	0.09	1.52	0.00	0.52	0.00	0.52	0.13	0.00	0.13	509	0.01	0.01
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	2028	Worker	20	40	18.50	0.14	0.15	2.02	0.00	0.52	0.00	0.52	0.13	0.00	0.13	531	0.01	0.01
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	2029	Worker	26	52	18.50	0.17	0.18	2.48	0.01	0.67	0.00	0.68	0.17	0.00	0.17	684	0.02	0.02
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	2029	Worker	20	40	18.50	0.13	0.14	1.90	0.00	0.52	0.00	0.52	0.13	0.00	0.13	526	0.01	0.01
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	2031	Worker	30	60	18.50	0.17	0.17	2.54	0.01	0.78	0.00	0.78	0.20	0.00	0.20	775	0.02	0.02
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	2033	Worker	30	60	18.50	0.15	0.14	2.28	0.01	0.78	0.00	0.78	0.20	0.00	0.20	763	0.01	0.02
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	2033	Worker	20	40	18.50	0.10	0.09	1.52	0.00	0.52	0.00	0.52	0.13	0.00	0.13	509	0.01	0.01
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	2026	Worker	20	40	18.50	0.16	0.18	2.30	0.01	0.52	0.00	0.52	0.13	0.00	0.13	543	0.02	0.02
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	2026	Worker	26	52	18.50	0.20	0.23	2.99	0.01	0.67	0.00	0.68	0.17	0.00	0.17	706	0.02	0.02
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	2027	Worker	20	40	18.50	0.15	0.17	2.15	0.01	0.52	0.00	0.52	0.13	0.00	0.13	537	0.01	0.01
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	2028	Worker	30	60	18.50	0.21	0.23	3.04	0.01	0.78	0.00	0.78	0.20	0.00	0.20	797	0.02	0.02
Ventura Blvd Stn_U-Alt5-Mobilize/Launch Reach 2 TBM	10/1/2028	1/30/2029	7	122	20	2028	Worker	-	-	18.50	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Retrieve/Demob Reach 3 TBM	2/19/2032	5/18/2032	7	90	20	2032	Worker	-	-	18.50	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	2031	Worker	30	60	18.50	0.17	0.17	2.54	0.01	0.78	0.00	0.78	0.20	0.00	0.20	775	0.02	0.02
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	2033	Worker	20	40	18.50	0.10	0.09	1.52	0.00	0.52	0.00	0.52	0.13	0.00	0.13	509	0.01	0.01
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	2035	Worker	14	28	18.50	0.07	0.06	0.97	0.00	0.36	0.00	0.36	0.09	0.00	0.09	352	0.01	0.01
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	2027	Worker	20	40	18.50	0.15	0.17	2.15	0.01	0.52	0.00	0.52	0.13	0.00	0.13	537	0.01	0.01
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	2027	Worker	26	52	18.50	0.19	0.21	2.79	0.01	0.67	0.00	0.68	0.17	0.00	0.17	698	0.02	0.02
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	2029	Worker	20	40	18.50	0.13	0.14	1.90	0.00	0.52	0.00	0.52	0.13	0.00	0.13	526	0.01	0.01
Sepulveda-Metro G Line Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2030	10/31/2030	6	52	20	2030	Worker	6	12	18.50	0.04	0.04	0.54	0.00	0.16	0.00	0.16	0.04	0.00	0.04	156	0.00	0.00
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	2030	Worker	30	60	18.50	0.18	0.19	2.69	0.01	0.78	0.00	0.78	0.20	0.00	0.20	782	0.02	0.02
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	2031	Worker	20	40	18.50	0.12	0.11	1.69	0.00	0.52	0.00	0.52	0.13	0.00	0.13	517	0.01	0.01
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	2026	Worker	20	40	18.50	0.16	0.18	2.30	0.01	0.52	0.00	0.52	0.13	0.00	0.13	543	0.02	0.02
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	2027	Worker	26	52	18.50	0.19	0.21	2.79	0.01	0.67	0.00	0.68	0.17	0.00	0.17	698	0.02	0.02
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	2028	Worker	20	40	18.50	0.14	0.15	2.02	0.00	0.52	0.00	0.52	0.13	0.00	0.13	531	0.01	0.01
Sherman Way Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2029	10/31/2029	6	52	10	2029	Worker	6	12	18.50	0.04	0.04	0.57	0.00	0.16	0.00	0.16	0.04	0.00	0.04	158	0.00	0.00
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	2029	Worker	30	60	18.50	0.20	0.21	2.86	0.01	0.78	0.00	0.78	0.20	0.00	0.20	789	0.02	0.02
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	2030	Worker	20	40	18.50	0.12	0.13	1.80	0.00	0.52	0.00	0.52	0.13	0.00	0.13	521	0.01	0.01
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	2033	Worker	14	28	18.50	0.07	0.07	1.07	0.00	0.36	0.00	0.36	0.09	0.00	0.09	356	0.01	0.01
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	2029	Worker	20	40	18.50	0.13	0.14	1.90	0.00	0.52	0.00	0.52	0.13	0.00	0.13	526	0.01	0.01
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	2030	Worker	30	60	18.50	0.18	0.19	2.69	0.01	0.78	0.00	0.78	0.20	0.00	0.20	782	0.02	0.02
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	2030	Worker	36	72	18.50	0.22	0.23	3.23	0.01	0.93	0.00	0.94	0.24	0.00	0.24	938	0.02	0.02
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	2031	Worker	46	92	18.50	0.27	0.26	3.89	0.01	1.19	0.01	1.20	0.30	0.00	0.31	1189	0.02	0.03
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	2032	Worker	14	28	18.50	0.08	0.07	1.12	0.00	0.36	0.00	0.36	0.09	0.00	0.09	359	0.01	0.01
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Worker	8	16	18.50	0.04	0.03	0.58	0.00	0.21	0.00	0.21	0.05	0.00	0.05	202	0.00	0.00
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Worker	8	16	18.50	0.04	0.03	0.58	0.00	0.21	0.00	0.21	0.05	0.00	0.05	202	0.00	0.00
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Worker	10	20	18.50	0.05	0.04	0.72	0.00	0.26	0.00	0.26	0.07	0.00	0.07	253	0.00	0.01
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Worker	8	16	18.50	0.04	0.03	0.58	0.00	0.21	0.00	0.21	0.05	0.00	0.05	202	0.00	0.00
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Worker	16	32	18.50	0.09	0.08	1.28	0.00	0.42	0.00	0.42	0.11	0.00	0.11	410	0.01	0.01
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Worker	18	36	18.50	0.10	0.09	1.44	0.00	0.47	0.00	0.47	0.12	0.00	0.12	461	0.01	0.01
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Worker	20	40	18.50	0.11	0.10	1.60	0.00	0.52	0.00	0.52	0.13	0.00	0.13	513	0.01	0.01
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Worker	24	48	18.50	0.13	0.12	1.92	0.01	0.62	0.00	0.63	0.16	0.00	0.16	615	0.01	0.01
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Worker	16	32	18.50	0.08	0.07	1.16	0.00	0.42	0.00	0.42	0.11	0.00	0.11	404	0.01	0.01
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Worker	4	8	18.50	0.02	0.02	0.29	0.00	0.10	0.00	0.10	0.03	0.00	0.03	101	0.00	0.00
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Worker	16	32	18.50	0.09	0.08	1.28	0.00	0.42	0.00	0.42	0.11	0.00	0.11	410	0.01	0.01
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	2028	Worker	38	76	18.50	0.27	0.29	3.85	0.01	0.99	0.01	0.99	0.25	0.00	0.25	1009	0.03	0.03
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Worker	24	48	18.50	0.17	0.18	2.43	0.01	0.62	0.00	0.63	0.16	0.00	0.16	638	0.02	0.02
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Worker	24	48	18.50	0.17	0.18	2.43	0.01	0.62	0.00	0.63	0.16	0.00	0.16	638	0.02	0.02

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Fleet Mix:** Light-Duty Mix (25% LDA/50% LDT1/25% LDT2); **Fuel Type:** Gasoline
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 5

WORKER VEHICLES (OFFSITE)

											Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Workers per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	2029	Worker	20	40	18.50	0.01	0.01	0.20	0.00	0.05	0.00	0.05	0.01	0.00	0.01	50.1	0.00	0.00	50.5
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	2030	Worker	26	52	18.50	0.02	0.02	0.30	0.00	0.09	0.00	0.09	0.02	0.00	0.02	80.2	0.00	0.00	80.8
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	2030	Worker	20	40	18.50	0.02	0.02	0.29	0.00	0.08	0.00	0.08	0.02	0.00	0.02	75.4	0.00	0.00	76.0
D Line Wilshire-Westwood Stn_U-Alt5-TBM Pass Through-Maintenance	10/1/2031	11/30/2031	6	52	20	2031	Worker	6	12	18.50	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.7	0.00	0.00	3.7
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	2031	Worker	30	60	18.50	0.05	0.05	0.69	0.00	0.21	0.00	0.21	0.05	0.00	0.05	191.3	0.00	0.00	192.6
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	2033	Worker	20	40	18.50	0.04	0.04	0.59	0.00	0.20	0.00	0.20	0.05	0.00	0.05	178.9	0.00	0.00	180.1
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	2028	Worker	20	40	18.50	0.01	0.02	0.21	0.00	0.05	0.00	0.05	0.01	0.00	0.01	50.1	0.00	0.00	50.5
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	2029	Worker	26	52	18.50	0.03	0.03	0.45	0.00	0.12	0.00	0.12	0.03	0.00	0.03	112.9	0.00	0.00	113.8
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	2029	Worker	20	40	18.50	0.03	0.03	0.38	0.00	0.10	0.00	0.10	0.03	0.00	0.03	95.2	0.00	0.00	95.9
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	2031	Worker	30	60	18.50	0.04	0.04	0.52	0.00	0.16	0.00	0.16	0.04	0.00	0.04	145.2	0.00	0.00	146.2
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	2033	Worker	30	60	18.50	0.03	0.03	0.41	0.00	0.14	0.00	0.14	0.04	0.00	0.04	125.0	0.00	0.00	125.8
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	2033	Worker	20	40	18.50	0.04	0.04	0.59	0.00	0.20	0.00	0.20	0.05	0.00	0.05	178.9	0.00	0.00	180.1
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	2026	Worker	20	40	18.50	0.02	0.02	0.22	0.00	0.05	0.00	0.05	0.01	0.00	0.01	48.0	0.00	0.00	48.5
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	2026	Worker	26	52	18.50	0.04	0.04	0.53	0.00	0.12	0.00	0.12	0.03	0.00	0.03	112.7	0.00	0.00	113.8
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	2027	Worker	20	40	18.50	0.03	0.03	0.45	0.00	0.11	0.00	0.11	0.03	0.00	0.03	101.8	0.00	0.00	102.7
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	2028	Worker	30	60	18.50	0.01	0.01	0.16	0.00	0.04	0.00	0.04	0.01	0.00	0.01	38.0	0.00	0.00	38.3
Ventura Blvd Stn_U-Alt5-Mobilize/Launch Reach 2 TBM	10/1/2028	1/30/2029	7	122	20	2028	Worker	-	-	18.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Retrieve/Demob Reach 3 TBM	2/19/2032	5/18/2032	7	90	20	2032	Worker	-	-	18.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	2031	Worker	30	60	18.50	0.05	0.05	0.79	0.00	0.24	0.00	0.24	0.06	0.00	0.06	218.0	0.00	0.00	219.5
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	2033	Worker	20	40	18.50	0.04	0.04	0.59	0.00	0.20	0.00	0.20	0.05	0.00	0.05	178.9	0.00	0.00	180.1
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	2035	Worker	14	28	18.50	0.00	0.00	0.03	0.00	0.01	0.00	0.01	0.00	0.00	0.00	8.5	0.00	0.00	8.5
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	2027	Worker	20	40	18.50	0.02	0.02	0.23	0.00	0.05	0.00	0.05	0.01	0.00	0.01	51.2	0.00	0.00	51.6
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	2027	Worker	26	52	18.50	0.03	0.04	0.51	0.00	0.12	0.00	0.12	0.03	0.00	0.03	115.9	0.00	0.00	116.9
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	2029	Worker	20	40	18.50	0.03	0.03	0.39	0.00	0.11	0.00	0.11	0.03	0.00	0.03	98.3	0.00	0.00	99.1
Sepulveda-Metro G Line Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2030	10/31/2030	6	52	20	2030	Worker	6	12	18.50	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.7	0.00	0.00	3.7
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	2030	Worker	30	60	18.50	0.06	0.06	0.84	0.00	0.24	0.00	0.24	0.06	0.00	0.06	220.2	0.00	0.01	221.9
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	2031	Worker	20	40	18.50	0.04	0.04	0.66	0.00	0.20	0.00	0.20	0.05	0.00	0.05	181.7	0.00	0.00	183.0
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	2026	Worker	20	40	18.50	0.02	0.02	0.24	0.00	0.05	0.00	0.05	0.01	0.00	0.01	51.2	0.00	0.00	51.7
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	2027	Worker	26	52	18.50	0.03	0.04	0.51	0.00	0.12	0.00	0.12	0.03	0.00	0.03	115.6	0.00	0.00	116.6
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	2028	Worker	20	40	18.50	0.03	0.03	0.42	0.00	0.11	0.00	0.11	0.03	0.00	0.03	100.2	0.00	0.00	101.1
Sherman Way Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2029	10/31/2029	6	52	10	2029	Worker	6	12	18.50	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.7	0.00	0.00	3.8
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	2029	Worker	30	60	18.50	0.06	0.06	0.89	0.00	0.24	0.00	0.24	0.06	0.00	0.06	221.9	0.01	0.01	223.6
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	2030	Worker	20	40	18.50	0.05	0.05	0.70	0.00	0.20	0.00	0.20	0.05	0.00	0.05	183.2	0.00	0.00	184.6
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	2033	Worker	14	28	18.50	0.00	0.00	0.03	0.00	0.01	0.00	0.01	0.00	0.00	0.00	10.2	0.00	0.00	10.2
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	2029	Worker	20	40	18.50	0.01	0.01	0.16	0.00	0.04	0.00	0.04	0.01	0.00	0.01	38.9	0.00	0.00	39.2
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	2030	Worker	30	60	18.50	0.01	0.01	0.17	0.00	0.05	0.00	0.05	0.01	0.00	0.01	44.0	0.00	0.00	44.3
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	2030	Worker	36	72	18.50	0.03	0.03	0.39	0.00	0.11	0.00	0.11	0.03	0.00	0.03	103.0	0.00	0.00	103.8
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	2031	Worker	46	92	18.50	0.08	0.08	1.12	0.00	0.34	0.00	0.35	0.09	0.00	0.09	311.1	0.01	0.01	313.3
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	2032	Worker	14	28	18.50	0.00	0.00	0.03	0.00	0.01	0.00	0.01	0.00	0.00	0.00	7.7	0.00	0.00	7.7
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Worker	8	16	18.50	0.00	0.00	0.02	0.00	0.01	0.00	0.01	0.00	0.00	0.00	7.1	0.00	0.00	7.1
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Worker	8	16	18.50	0.00	0.00	0.03	0.00	0.01	0.00	0.01	0.00	0.00	0.00	9.5	0.00	0.00	9.6
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Worker	10	20	18.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.7	0.00	0.00	0.7
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Worker	8	16	18.50	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.9	0.00	0.00	1.9
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Worker	16	32	18.50	0.00	0.00	0.05	0.00	0.02	0.00	0.02	0.00	0.00	0.00	14.3	0.00	0.00	14.4
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Worker	18	36	18.50	0.00	0.00	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	10.9	0.00	0.00	11.0
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Worker	20	40	18.50	0.01	0.01	0.11	0.00	0.03	0.00	0.03	0.01	0.00	0.01	30.7	0.00	0.00	30.9
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Worker	24	48	18.50	0.05	0.05	0.75	0.00	0.24	0.00	0.24	0.06	0.00	0.06	218.2	0.00	0.00	219.7
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Worker	16	32	18.50	0.00	0.00	0.03	0.00	0.01	0.00	0.01	0.00	0.00	0.00	9.5	0.00	0.00	9.6
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Worker	4	8	18.50	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.6	0.00	0.00	3.6
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Worker	16	32	18.50	0.03	0.03	0.40	0.00	0.13	0.00	0.13	0.03	0.00	0.03	116.5	0.00	0.00	117.3
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	2028	Worker	38	76	18.50	0.21	0.22	3.01	0.01	0.77	0.00	0.78	0.20	0.00	0.20	716.6	0.02	0.02	722.5
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Worker	24	48	18.50	0.25	0.27	3.61	0.01	0.93	0.00	0.93	0.23	0.00	0.24	859.7	0.02	0.02	866.8
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Worker	24	48	18.50	0.21	0.23	3.04	0.01	0.78	0.00	0.78	0.20	0.00	0.20	724.1	0.02	0.02	730.1

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Fleet Mix:** Light-Duty Mix (25% LDA/50% LDT1/25% LDT2); **Fuel Type:** Gasoline
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 5

SOIL/MATERIAL HAUL TRUCKS (ONSITE)

											Running Emission Factor (g/mile)[1,2,4]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	2028	Haul	4	4	0.10	0.03	4.68	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2041.8	0.00	0.32
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	2029	Haul	-	-	0.10	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	2029	Haul	98	98	0.10	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	2029	Haul	-	-	0.10	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	2029	Haul	4	4	0.10	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	2030	Haul	154	154	0.10	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	2032	Haul	4	4	0.10	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	4/15/2030	6/11/2032	7	789	20	2030	Haul	4	4	0.10	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenun	6/12/2032	11/28/2033	7	535	20	2032	Haul	4	4	0.10	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installatior	12/1/2033	7/13/2034	7	225	20	2033	Haul	2	2	0.10	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Haul	4	4	0.10	0.03	4.68	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2041.8	0.00	0.32
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	2029	Haul	174	174	0.10	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	2033	Haul	4	4	0.10	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	3/1/2029	2/14/2033	7	1447	20	2029	Haul	4	4	0.10	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Slabs, Walkways, Plenum	8/23/2032	12/14/2034	7	844	20	2032	Haul	4	4	0.10	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	2034	Haul	2	2	0.10	0.03	4.53	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1854.7	0.00	0.29
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	2027	Haul	-	-	0.10	0.03	4.72	0.35	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2081.8	0.00	0.33
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	2028	Haul	-	-	0.10	0.03	4.68	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2041.8	0.00	0.32
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	2028	Haul	38	38	0.10	0.03	4.68	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2041.8	0.00	0.32
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	2028	Haul	-	-	0.10	0.03	4.68	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2041.8	0.00	0.32
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Haul	4	4	0.10	0.03	4.68	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2041.8	0.00	0.32
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	2029	Haul	154	154	0.10	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	2032	Haul	4	4	0.10	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	4/3/2029	2/19/2032	7	1053	20	2029	Haul	4	4	0.10	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Slabs, Walkways, Plenum	9/23/2031	5/18/2033	7	604	20	2031	Haul	4	4	0.10	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	2033	Haul	2	2	0.10	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	2030	Haul	6	6	0.10	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	2030	Haul	-	-	0.10	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	2030	Haul	28	28	0.10	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	2031	Haul	-	-	0.10	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Haul	-	-	0.10	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	2029	Haul	-	-	0.10	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	2030	Haul	-	-	0.10	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	2030	Haul	-	-	0.10	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	10/29/2030	12/24/2030	6	49	20	2030	Haul	4	4	0.10	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	2030	Haul	4	4	0.10	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	12/20/2031	1/20/2032	6	27	20	2031	Haul	4	4	0.10	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	2032	Haul	4	4	0.10	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Haul	4	4	0.10	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Segment 6-Reach 3 Portal to MSF-Paving	7/19/2032	7/14/2033	6	310	20	2032	Haul	-	-	0.10	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Haul	6	6	0.10	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	2030	Haul	-	-	0.10	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	2030	Haul	98	98	0.10	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	2030	Haul	-	-	0.10	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	2030	Haul	4	4	0.10	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Haul	2	2	0.10	0.03	4.72	0.35	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2081.8	0.00	0.33
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Haul	-	-	0.10	0.03	4.68	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2041.8	0.00	0.32
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	2029	Haul	48	48	0.10	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Metro E Line Stn_U-Alt5-TBM Pass Through-Maintenance	8/1/2030	9/30/2030	6	52	20	2030	Haul	-	-	0.10	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	2030	Haul	8	8	0.10	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	2031	Haul	4	4	0.10	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	2034	Haul	2	2	0.10	0.03	4.53	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1854.7	0.00	0.29
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	2028	Haul	2	2	0.10	0.03	4.68	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2041.8	0.00	0.32
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	2029	Haul	-	-	0.10	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	2029	Haul	56	56	0.10	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Santa Monica Stn_U-Alt5-TBM Pass Through-Maintenance	3/1/2031	4/30/2031	6	52	20	2031	Haul	-	-	0.10	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	2030	Haul	10	10	0.10	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	2032	Haul	4	4	0.10	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30

Sepulveda Transit Corridor Project - ALTERNATIVE 5

SOIL/MATERIAL HAUL TRUCKS (ONSITE)

											Non-Running Emission Factor (g/trip)[1,3]													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	2028	Haul	4	4	0.10	0.36	6.75	5.37	0.01	-	0.00	0.00	-	0.00	0.00	781.5	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	2029	Haul	-	-	0.10	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	2029	Haul	98	98	0.10	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	2029	Haul	-	-	0.10	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	2029	Haul	4	4	0.10	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	2030	Haul	154	154	0.10	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	2032	Haul	4	4	0.10	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.6	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	4/15/2030	6/11/2032	7	789	20	2030	Haul	4	4	0.10	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenun	6/12/2032	11/28/2033	7	535	20	2032	Haul	4	4	0.10	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.6	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installatior	12/1/2033	7/13/2034	7	225	20	2033	Haul	2	2	0.10	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.3	0.02	0.12
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Haul	4	4	0.10	0.36	6.75	5.37	0.01	-	0.00	0.00	-	0.00	0.00	781.5	0.02	0.12
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	2029	Haul	174	174	0.10	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	2033	Haul	4	4	0.10	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.3	0.02	0.12
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	3/1/2029	2/14/2033	7	1447	20	2029	Haul	4	4	0.10	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Slabs, Walkways, Plenum	8/23/2032	12/14/2034	7	844	20	2032	Haul	4	4	0.10	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.6	0.02	0.12
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	2034	Haul	2	2	0.10	0.37	6.35	5.48	0.01	-	0.00	0.00	-	0.00	0.00	734.2	0.02	0.12
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	2027	Haul	-	-	0.10	0.36	6.88	5.37	0.01	-	0.00	0.00	-	0.00	0.00	795.6	0.02	0.13
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	2028	Haul	-	-	0.10	0.36	6.75	5.37	0.01	-	0.00	0.00	-	0.00	0.00	781.5	0.02	0.12
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	2028	Haul	38	38	0.10	0.36	6.75	5.37	0.01	-	0.00	0.00	-	0.00	0.00	781.5	0.02	0.12
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	2028	Haul	-	-	0.10	0.36	6.75	5.37	0.01	-	0.00	0.00	-	0.00	0.00	781.5	0.02	0.12
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Haul	4	4	0.10	0.36	6.75	5.37	0.01	-	0.00	0.00	-	0.00	0.00	781.5	0.02	0.12
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	2029	Haul	154	154	0.10	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	2032	Haul	4	4	0.10	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.6	0.02	0.12
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	4/3/2029	2/19/2032	7	1053	20	2029	Haul	4	4	0.10	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Slabs, Walkways, Plenum	9/23/2031	5/18/2033	7	604	20	2031	Haul	4	4	0.10	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.4	0.02	0.12
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	2033	Haul	2	2	0.10	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.3	0.02	0.12
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	2030	Haul	6	6	0.10	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	2030	Haul	-	-	0.10	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	2030	Haul	28	28	0.10	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	2031	Haul	-	-	0.10	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.4	0.02	0.12
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Haul	-	-	0.10	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.6	0.02	0.12
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	2029	Haul	-	-	0.10	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	2030	Haul	-	-	0.10	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	2030	Haul	-	-	0.10	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	10/29/2030	12/24/2030	6	49	20	2030	Haul	4	4	0.10	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	2030	Haul	4	4	0.10	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	12/20/2031	1/20/2032	6	27	20	2031	Haul	4	4	0.10	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.4	0.02	0.12
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	2032	Haul	4	4	0.10	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.6	0.02	0.12
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Haul	4	4	0.10	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.6	0.02	0.12
Segment 6-Reach 3 Portal to MSF-Paving	7/19/2032	7/14/2033	6	310	20	2032	Haul	-	-	0.10	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.6	0.02	0.12
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Haul	6	6	0.10	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	2030	Haul	-	-	0.10	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	2030	Haul	98	98	0.10	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	2030	Haul	-	-	0.10	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	2030	Haul	4	4	0.10	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Haul	2	2	0.10	0.36	6.88	5.37	0.01	-	0.00	0.00	-	0.00	0.00	795.6	0.02	0.13
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Haul	-	-	0.10	0.36	6.75	5.37	0.01	-	0.00	0.00	-	0.00	0.00	781.5	0.02	0.12
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	2029	Haul	48	48	0.10	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
Metro E Line Stn_U-Alt5-TBM Pass Through-Maintenance	8/1/2030	9/30/2030	6	52	20	2030	Haul	-	-	0.10	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	2030	Haul	8	8	0.10	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	2031	Haul	4	4	0.10	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.4	0.02	0.12
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	2034	Haul	2	2	0.10	0.37	6.35	5.48	0.01	-	0.00	0.00	-	0.00	0.00	734.2	0.02	0.12
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	2028	Haul	2	2	0.10	0.36	6.75	5.37	0.01	-	0.00	0.00	-	0.00	0.00	781.5	0.02	0.12
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	2029	Haul	-	-	0.10	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	2029	Haul	56	56	0.10	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
Santa Monica Stn_U-Alt5-TBM Pass Through-Maintenance	3/1/2031	4/30/2031	6	52	20	2031	Haul	-	-	0.10	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.4	0.02	0.12
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	2030	Haul	10	10	0.10	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	2032	Haul	4	4	0.10	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.6	0.02	0.12

Sepulveda Transit Corridor Project - ALTERNATIVE 5

SOIL/MATERIAL HAUL TRUCKS (ONSITE)

											Daily Emissions (lb/day)												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	2028	Haul	4	4	0.10	0.00	0.06	0.05	0.00	0.16	0.00	0.16	0.02	0.00	0.02	9	0.00	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	2029	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	2029	Haul	98	98	0.10	0.08	1.53	1.17	0.00	3.98	0.00	3.98	0.40	0.00	0.40	209	0.00	0.03
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	2029	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	2029	Haul	4	4	0.10	0.00	0.06	0.05	0.00	0.16	0.00	0.16	0.02	0.00	0.02	9	0.00	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	2030	Haul	154	154	0.10	0.12	2.37	1.84	0.00	6.25	0.00	6.25	0.62	0.00	0.62	324	0.01	0.05
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	2032	Haul	4	4	0.10	0.00	0.06	0.05	0.00	0.16	0.00	0.16	0.02	0.00	0.02	8	0.00	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	4/15/2030	6/11/2032	7	789	20	2030	Haul	4	4	0.10	0.00	0.06	0.05	0.00	0.16	0.00	0.16	0.02	0.00	0.02	8	0.00	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenun	6/12/2032	11/28/2033	7	535	20	2032	Haul	4	4	0.10	0.00	0.06	0.05	0.00	0.16	0.00	0.16	0.02	0.00	0.02	8	0.00	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installatior	12/1/2033	7/13/2034	7	225	20	2033	Haul	2	2	0.10	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4	0.00	0.00
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Haul	4	4	0.10	0.00	0.06	0.05	0.00	0.16	0.00	0.16	0.02	0.00	0.02	9	0.00	0.00
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	2029	Haul	174	174	0.10	0.14	2.72	2.08	0.00	7.06	0.00	7.06	0.71	0.00	0.71	372	0.01	0.06
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	2033	Haul	4	4	0.10	0.00	0.06	0.05	0.00	0.16	0.00	0.16	0.02	0.00	0.02	8	0.00	0.00
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	3/1/2029	2/14/2033	7	1447	20	2029	Haul	4	4	0.10	0.00	0.06	0.05	0.00	0.16	0.00	0.16	0.02	0.00	0.02	9	0.00	0.00
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Slabs, Walkways, Plenum	8/23/2032	12/14/2034	7	844	20	2032	Haul	4	4	0.10	0.00	0.06	0.05	0.00	0.16	0.00	0.16	0.02	0.00	0.02	8	0.00	0.00
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	2034	Haul	2	2	0.10	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4	0.00	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	2027	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	2028	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	2028	Haul	38	38	0.10	0.03	0.60	0.45	0.00	1.54	0.00	1.54	0.15	0.00	0.15	83	0.00	0.01
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	2028	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Haul	4	4	0.10	0.00	0.06	0.05	0.00	0.16	0.00	0.16	0.02	0.00	0.02	9	0.00	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	2029	Haul	154	154	0.10	0.12	2.41	1.84	0.00	6.25	0.00	6.25	0.62	0.00	0.62	329	0.01	0.05
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	2032	Haul	4	4	0.10	0.00	0.06	0.05	0.00	0.16	0.00	0.16	0.02	0.00	0.02	8	0.00	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	4/3/2029	2/19/2032	7	1053	20	2029	Haul	4	4	0.10	0.00	0.06	0.05	0.00	0.16	0.00	0.16	0.02	0.00	0.02	9	0.00	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Slabs, Walkways, Plenum	9/23/2031	5/18/2033	7	604	20	2031	Haul	4	4	0.10	0.00	0.06	0.05	0.00	0.16	0.00	0.16	0.02	0.00	0.02	8	0.00	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	2033	Haul	2	2	0.10	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4	0.00	0.00
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	2030	Haul	6	6	0.10	0.00	0.09	0.07	0.00	0.24	0.00	0.24	0.02	0.00	0.02	13	0.00	0.00
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	2030	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	2030	Haul	28	28	0.10	0.02	0.43	0.33	0.00	1.14	0.00	1.14	0.11	0.00	0.11	59	0.00	0.01
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	2031	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	2029	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	2030	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	2030	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	10/29/2030	12/24/2030	6	49	20	2030	Haul	4	4	0.10	0.00	0.06	0.05	0.00	0.16	0.00	0.16	0.02	0.00	0.02	8	0.00	0.00
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	2030	Haul	4	4	0.10	0.00	0.06	0.05	0.00	0.16	0.00	0.16	0.02	0.00	0.02	8	0.00	0.00
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	12/20/2031	1/20/2032	6	27	20	2031	Haul	4	4	0.10	0.00	0.06	0.05	0.00	0.16	0.00	0.16	0.02	0.00	0.02	8	0.00	0.00
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	2032	Haul	4	4	0.10	0.00	0.06	0.05	0.00	0.16	0.00	0.16	0.02	0.00	0.02	8	0.00	0.00
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Haul	4	4	0.10	0.00	0.06	0.05	0.00	0.16	0.00	0.16	0.02	0.00	0.02	8	0.00	0.00
Segment 6-Reach 3 Portal to MSF-Paving	7/19/2032	7/14/2033	6	310	20	2032	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Haul	6	6	0.10	0.00	0.09	0.07	0.00	0.24	0.00	0.24	0.02	0.00	0.02	13	0.00	0.00
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	2030	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	2030	Haul	98	98	0.10	0.08	1.51	1.17	0.00	3.98	0.00	3.98	0.40	0.00	0.40	206	0.00	0.03
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	2030	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	2030	Haul	4	4	0.10	0.00	0.06	0.05	0.00	0.16	0.00	0.16	0.02	0.00	0.02	8	0.00	0.00
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Haul	2	2	0.10	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4	0.00	0.00
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	2029	Haul	48	48	0.10	0.04	0.75	0.57	0.00	1.95	0.00	1.95	0.19	0.00	0.19	103	0.00	0.02
Metro E Line Stn_U-Alt5-TBM Pass Through-Maintenance	8/1/2030	9/30/2030	6	52	20	2030	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	2030	Haul	8	8	0.10	0.01	0.12	0.10	0.00	0.32	0.00	0.32	0.03	0.00	0.03	17	0.00	0.00
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	2031	Haul	4	4	0.10	0.00	0.06	0.05	0.00	0.16	0.00	0.16	0.02	0.00	0.02	8	0.00	0.00
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	2034	Haul	2	2	0.10	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4	0.00	0.00
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	2028	Haul	2	2	0.10	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4	0.00	0.00
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	2029	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	2029	Haul	56	56	0.10	0.05	0.87	0.67	0.00	2.27	0.00	2.27	0.23	0.00	0.23	120	0.00	0.02
Santa Monica Stn_U-Alt5-TBM Pass Through-Maintenance	3/1/2031	4/30/2031	6	52	20	2031	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	2030	Haul	10	10	0.10	0.01	0.15	0.12	0.00	0.41	0.00	0.41	0.04	0.00	0.04	21	0.00	0.00
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	2032	Haul	4	4	0.10	0.00	0.06	0.05	0.00	0.16	0.00	0.16	0.02	0.00	0.02	8	0.00	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 5

SOIL/MATERIAL HAUL TRUCKS (ONSITE)

											Total Emissions (tons)											Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	2028	Haul	4	4	0.10	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	2029	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	2029	Haul	98	98	0.10	0.00	0.08	0.06	0.00	0.21	0.00	0.21	0.02	0.00	0.02	9.9	0.00	0.00	10.4
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	2029	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	2029	Haul	4	4	0.10	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.5	0.00	0.00	0.5
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	2030	Haul	154	154	0.10	0.05	0.93	0.73	0.00	2.46	0.00	2.46	0.25	0.00	0.25	116.0	0.00	0.02	121.5
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	2032	Haul	4	4	0.10	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	4/15/2030	6/11/2032	7	789	20	2030	Haul	4	4	0.10	0.00	0.02	0.02	0.00	0.06	0.00	0.06	0.01	0.00	0.01	3.0	0.00	0.00	3.2
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenun	6/12/2032	11/28/2033	7	535	20	2032	Haul	4	4	0.10	0.00	0.02	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	2.0	0.00	0.00	2.1
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installatior	12/1/2033	7/13/2034	7	225	20	2033	Haul	2	2	0.10	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Haul	4	4	0.10	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.5	0.00	0.00	0.5
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	2029	Haul	174	174	0.10	0.10	1.98	1.51	0.00	5.15	0.00	5.15	0.51	0.00	0.52	246.2	0.00	0.04	257.8
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	2033	Haul	4	4	0.10	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	3/1/2029	2/14/2033	7	1447	20	2029	Haul	4	4	0.10	0.00	0.05	0.03	0.00	0.12	0.00	0.12	0.01	0.00	0.01	5.6	0.00	0.00	5.9
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Slabs, Walkways, Plenum	8/23/2032	12/14/2034	7	844	20	2032	Haul	4	4	0.10	0.00	0.03	0.02	0.00	0.07	0.00	0.07	0.01	0.00	0.01	3.2	0.00	0.00	3.3
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	2034	Haul	2	2	0.10	0.00	0.01	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.7	0.00	0.00	0.8
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	2027	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	2028	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	2028	Haul	38	38	0.10	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.0	0.00	0.00	4.2
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	2028	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Haul	4	4	0.10	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.5	0.00	0.00	0.5
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	2029	Haul	154	154	0.10	0.07	1.34	1.02	0.00	3.48	0.00	3.48	0.35	0.00	0.35	166.3	0.00	0.03	174.2
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	2032	Haul	4	4	0.10	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.4
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	4/3/2029	2/19/2032	7	1053	20	2029	Haul	4	4	0.10	0.00	0.03	0.03	0.00	0.09	0.00	0.09	0.01	0.00	0.01	4.1	0.00	0.00	4.3
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Slabs, Walkways, Plenum	9/23/2031	5/18/2033	7	604	20	2031	Haul	4	4	0.10	0.00	0.02	0.01	0.00	0.05	0.00	0.05	0.00	0.00	0.00	2.3	0.00	0.00	2.4
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	2033	Haul	2	2	0.10	0.00	0.01	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.7	0.00	0.00	0.8
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	2030	Haul	6	6	0.10	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.5
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	2030	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	2030	Haul	28	28	0.10	0.00	0.06	0.04	0.00	0.15	0.00	0.15	0.01	0.00	0.01	7.0	0.00	0.00	7.3
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	2031	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	2029	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	2030	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	2030	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	10/29/2030	12/24/2030	6	49	20	2030	Haul	4	4	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	2030	Haul	4	4	0.10	0.00	0.01	0.01	0.00	0.03	0.00	0.03	0.00	0.00	0.00	1.2	0.00	0.00	1.2
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	12/20/2031	1/20/2032	6	27	20	2031	Haul	4	4	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	2032	Haul	4	4	0.10	0.00	0.01	0.01	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.9	0.00	0.00	0.9
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Haul	4	4	0.10	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.6	0.00	0.00	0.6
Segment 6-Reach 3 Portal to MSF-Paving	7/19/2032	7/14/2033	6	310	20	2032	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Haul	6	6	0.10	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	2030	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	2030	Haul	98	98	0.10	0.00	0.04	0.03	0.00	0.10	0.00	0.10	0.01	0.00	0.01	4.9	0.00	0.00	5.1
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	2030	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	2030	Haul	4	4	0.10	0.00	0.01	0.01	0.00	0.03	0.00	0.03	0.00	0.00	0.00	1.2	0.00	0.00	1.3
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Haul	2	2	0.10	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	2029	Haul	48	48	0.10	0.01	0.12	0.09	0.00	0.31	0.00	0.31	0.03	0.00	0.03	14.8	0.00	0.00	15.6
Metro E Line Stn_U-Alt5-TBM Pass Through-Maintenance	8/1/2030	9/30/2030	6	52	20	2030	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	2030	Haul	8	8	0.10	0.00	0.04	0.03	0.00	0.10	0.00	0.10	0.01	0.00	0.01	4.8	0.00	0.00	5.0
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	2031	Haul	4	4	0.10	0.00	0.02	0.02	0.00	0.06	0.00	0.06	0.01	0.00	0.01	3.0	0.00	0.00	3.1
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	2034	Haul	2	2	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	2028	Haul	2	2	0.10	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	2029	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	2029	Haul	56	56	0.10	0.01	0.14	0.10	0.00	0.35	0.00	0.35	0.04	0.00	0.04	16.9	0.00	0.00	17.7
Santa Monica Stn_U-Alt5-TBM Pass Through-Maintenance	3/1/2031	4/30/2031	6	52	20	2031	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	2030	Haul	10	10	0.10	0.00	0.05	0.04	0.00	0.13	0.00	0.13	0.01	0.00	0.01	5.9	0.00	0.00	6.2
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	2032	Haul	4	4	0.10	0.00	0.02	0.02	0.00	0.06	0.00	0.06	0.01	0.00	0.01	2.9	0.00	0.00	3.0

Sepulveda Transit Corridor Project - ALTERNATIVE 5

SOIL/MATERIAL HAUL TRUCKS (ONSITE)

											Running Emission Factor (g/mile)[1,2,4]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	2029	Haul	4	4	0.10	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	2030	Haul	-	-	0.10	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	2030	Haul	88	88	0.10	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
D Line Wilshire-Westwood Stn_U-Alt5-TBM Pass Through-Maintenance	10/1/2031	11/30/2031	6	52	20	2031	Haul	-	-	0.10	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	2031	Haul	10	10	0.10	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	2033	Haul	4	4	0.10	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	2028	Haul	2	2	0.10	0.03	4.68	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2041.8	0.00	0.32
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	2029	Haul	-	-	0.10	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	2029	Haul	62	62	0.10	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	2031	Haul	8	8	0.10	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	2033	Haul	8	8	0.10	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	2033	Haul	4	4	0.10	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	2026	Haul	2	2	0.10	0.03	4.75	0.36	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2123.1	0.00	0.33
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	2026	Haul	-	-	0.10	0.03	4.75	0.36	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2123.1	0.00	0.33
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	2027	Haul	44	44	0.10	0.03	4.72	0.35	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2081.8	0.00	0.33
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	2028	Haul	-	-	0.10	0.03	4.68	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2041.8	0.00	0.32
Ventura Blvd Stn_U-Alt5-Mobilize/Launch Reach 2 TBM	10/1/2028	1/30/2029	7	122	20	2028	Haul	-	-	0.10	0.03	4.68	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2041.8	0.00	0.32
Ventura Blvd Stn_U-Alt5-Retrieve/Demob Reach 3 TBM	2/19/2032	5/18/2032	7	90	20	2032	Haul	-	-	0.10	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	2031	Haul	10	10	0.10	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	2033	Haul	4	4	0.10	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	2035	Haul	2	2	0.10	0.03	4.51	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1831.9	0.00	0.29
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	2027	Haul	2	2	0.10	0.03	4.72	0.35	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2081.8	0.00	0.33
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	2027	Haul	-	-	0.10	0.03	4.72	0.35	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2081.8	0.00	0.33
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	2029	Haul	60	60	0.10	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Sepulveda-Metro G Line Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2030	10/31/2030	6	52	20	2030	Haul	-	-	0.10	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	2030	Haul	10	10	0.10	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	2031	Haul	4	4	0.10	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	2026	Haul	2	2	0.10	0.03	4.75	0.36	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2123.1	0.00	0.33
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	2027	Haul	-	-	0.10	0.03	4.72	0.35	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2081.8	0.00	0.33
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	2028	Haul	34	34	0.10	0.03	4.68	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2041.8	0.00	0.32
Sherman Way Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2029	10/31/2029	6	52	10	2029	Haul	-	-	0.10	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	2029	Haul	10	10	0.10	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	2030	Haul	4	4	0.10	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	2033	Haul	2	2	0.10	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	2029	Haul	2	2	0.10	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	2030	Haul	2	2	0.10	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	2030	Haul	-	-	0.10	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	2031	Haul	4	4	0.10	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	2032	Haul	8	8	0.10	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Haul	-	-	0.10	0.03	4.53	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1854.7	0.00	0.29
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Haul	-	-	0.10	0.03	4.53	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1854.7	0.00	0.29
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Haul	2	2	0.10	0.03	4.53	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1854.7	0.00	0.29
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Haul	-	-	0.10	0.03	4.53	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1854.7	0.00	0.29
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Haul	14	14	0.10	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Haul	-	-	0.10	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Haul	-	-	0.10	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Haul	4	4	0.10	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Haul	14	14	0.10	0.03	4.53	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1854.7	0.00	0.29
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Haul	-	-	0.10	0.03	4.53	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1854.7	0.00	0.29
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Haul	-	-	0.10	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	2028	Haul	54	54	0.10	0.03	4.68	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2041.8	0.00	0.32
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Haul	8	8	0.10	0.03	4.68	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2041.8	0.00	0.32
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Haul	8	8	0.10	0.03	4.68	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2041.8	0.00	0.32

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** 100% HHDT; **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 5

SOIL/MATERIAL HAUL TRUCKS (ONSITE)

											Non-Running Emission Factor (g/trip)[1,3]													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	2029	Haul	4	4	0.10	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	2030	Haul	-	-	0.10	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	2030	Haul	88	88	0.10	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
D Line Wilshire-Westwood Stn_U-Alt5-TBM Pass Through-Maintenance	10/1/2031	11/30/2031	6	52	20	2031	Haul	-	-	0.10	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.4	0.02	0.12
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	2031	Haul	10	10	0.10	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.4	0.02	0.12
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	2033	Haul	4	4	0.10	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.3	0.02	0.12
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	2028	Haul	2	2	0.10	0.36	6.75	5.37	0.01	-	0.00	0.00	-	0.00	0.00	781.5	0.02	0.12
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	2029	Haul	-	-	0.10	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	2029	Haul	62	62	0.10	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	2031	Haul	8	8	0.10	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.4	0.02	0.12
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	2033	Haul	8	8	0.10	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.3	0.02	0.12
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	2033	Haul	4	4	0.10	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.3	0.02	0.12
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	2026	Haul	2	2	0.10	0.36	6.99	5.37	0.01	-	0.00	0.00	-	0.00	0.00	810.7	0.02	0.13
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	2026	Haul	-	-	0.10	0.36	6.99	5.37	0.01	-	0.00	0.00	-	0.00	0.00	810.7	0.02	0.13
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	2027	Haul	44	44	0.10	0.36	6.88	5.37	0.01	-	0.00	0.00	-	0.00	0.00	795.6	0.02	0.13
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	2028	Haul	-	-	0.10	0.36	6.75	5.37	0.01	-	0.00	0.00	-	0.00	0.00	781.5	0.02	0.12
Ventura Blvd Stn_U-Alt5-Mobilize/Launch Reach 2 TBM	10/1/2028	1/30/2029	7	122	20	2028	Haul	-	-	0.10	0.36	6.75	5.37	0.01	-	0.00	0.00	-	0.00	0.00	781.5	0.02	0.12
Ventura Blvd Stn_U-Alt5-Retrieve/Demob Reach 3 TBM	2/19/2032	5/18/2032	7	90	20	2032	Haul	-	-	0.10	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.6	0.02	0.12
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	2031	Haul	10	10	0.10	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.4	0.02	0.12
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	2033	Haul	4	4	0.10	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.3	0.02	0.12
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	2035	Haul	2	2	0.10	0.37	6.33	5.50	0.01	-	0.00	0.00	-	0.00	0.00	731.2	0.02	0.12
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	2027	Haul	2	2	0.10	0.36	6.88	5.37	0.01	-	0.00	0.00	-	0.00	0.00	795.6	0.02	0.13
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	2027	Haul	-	-	0.10	0.36	6.88	5.37	0.01	-	0.00	0.00	-	0.00	0.00	795.6	0.02	0.13
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	2029	Haul	60	60	0.10	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
Sepulveda-Metro G Line Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2030	10/31/2030	6	52	20	2030	Haul	-	-	0.10	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	2030	Haul	10	10	0.10	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	2031	Haul	4	4	0.10	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.4	0.02	0.12
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	2026	Haul	2	2	0.10	0.36	6.99	5.37	0.01	-	0.00	0.00	-	0.00	0.00	810.7	0.02	0.13
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	2027	Haul	-	-	0.10	0.36	6.88	5.37	0.01	-	0.00	0.00	-	0.00	0.00	795.6	0.02	0.13
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	2028	Haul	34	34	0.10	0.36	6.75	5.37	0.01	-	0.00	0.00	-	0.00	0.00	781.5	0.02	0.12
Sherman Way Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2029	10/31/2029	6	52	10	2029	Haul	-	-	0.10	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	2029	Haul	10	10	0.10	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	2030	Haul	4	4	0.10	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	2033	Haul	2	2	0.10	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.3	0.02	0.12
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	2029	Haul	2	2	0.10	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	2030	Haul	2	2	0.10	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	2030	Haul	-	-	0.10	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	2031	Haul	4	4	0.10	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.4	0.02	0.12
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	2032	Haul	8	8	0.10	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.6	0.02	0.12
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Haul	-	-	0.10	0.37	6.35	5.48	0.01	-	0.00	0.00	-	0.00	0.00	734.2	0.02	0.12
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Haul	-	-	0.10	0.37	6.35	5.48	0.01	-	0.00	0.00	-	0.00	0.00	734.2	0.02	0.12
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Haul	2	2	0.10	0.37	6.35	5.48	0.01	-	0.00	0.00	-	0.00	0.00	734.2	0.02	0.12
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Haul	-	-	0.10	0.37	6.35	5.48	0.01	-	0.00	0.00	-	0.00	0.00	734.2	0.02	0.12
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Haul	14	14	0.10	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.6	0.02	0.12
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Haul	-	-	0.10	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.6	0.02	0.12
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Haul	-	-	0.10	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.6	0.02	0.12
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Haul	4	4	0.10	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.6	0.02	0.12
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Haul	14	14	0.10	0.37	6.35	5.48	0.01	-	0.00	0.00	-	0.00	0.00	734.2	0.02	0.12
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Haul	-	-	0.10	0.37	6.35	5.48	0.01	-	0.00	0.00	-	0.00	0.00	734.2	0.02	0.12
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Haul	-	-	0.10	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.6	0.02	0.12
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	2028	Haul	54	54	0.10	0.36	6.75	5.37	0.01	-	0.00	0.00	-	0.00	0.00	781.5	0.02	0.12
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Haul	8	8	0.10	0.36	6.75	5.37	0.01	-	0.00	0.00	-	0.00	0.00	781.5	0.02	0.12
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Haul	8	8	0.10	0.36	6.75	5.37	0.01	-	0.00	0.00	-	0.00	0.00	781.5	0.02	0.12

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** 100% HHDT; **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 5

SOIL/MATERIAL HAUL TRUCKS (ONSITE)

											Daily Emissions (lb/day)												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	2029	Haul	4	4	0.10	0.00	0.06	0.05	0.00	0.16	0.00	0.16	0.02	0.00	0.02	9	0.00	0.00
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	2030	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	2030	Haul	88	88	0.10	0.07	1.36	1.05	0.00	3.57	0.00	3.57	0.36	0.00	0.36	185	0.00	0.03
D Line Wilshire-Westwood Stn_U-Alt5-TBM Pass Through-Maintenance	10/1/2031	11/30/2031	6	52	20	2031	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	2031	Haul	10	10	0.10	0.01	0.15	0.12	0.00	0.41	0.00	0.41	0.04	0.00	0.04	21	0.00	0.00
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	2033	Haul	4	4	0.10	0.00	0.06	0.05	0.00	0.16	0.00	0.16	0.02	0.00	0.02	8	0.00	0.00
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	2028	Haul	2	2	0.10	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4	0.00	0.00
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	2029	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	2029	Haul	62	62	0.10	0.05	0.97	0.74	0.00	2.52	0.00	2.52	0.25	0.00	0.25	133	0.00	0.02
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	2031	Haul	8	8	0.10	0.01	0.12	0.10	0.00	0.32	0.00	0.32	0.03	0.00	0.03	17	0.00	0.00
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	2033	Haul	8	8	0.10	0.01	0.12	0.10	0.00	0.32	0.00	0.32	0.03	0.00	0.03	16	0.00	0.00
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	2033	Haul	4	4	0.10	0.00	0.06	0.05	0.00	0.16	0.00	0.16	0.02	0.00	0.02	8	0.00	0.00
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	2026	Haul	2	2	0.10	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	5	0.00	0.00
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	2026	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	2027	Haul	44	44	0.10	0.04	0.71	0.52	0.00	1.79	0.00	1.79	0.18	0.00	0.18	97	0.00	0.02
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	2028	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Mobilize/Launch Reach 2 TBM	10/1/2028	1/30/2029	7	122	20	2028	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Retrieve/Demob Reach 3 TBM	2/19/2032	5/18/2032	7	90	20	2032	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	2031	Haul	10	10	0.10	0.01	0.15	0.12	0.00	0.41	0.00	0.41	0.04	0.00	0.04	21	0.00	0.00
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	2033	Haul	4	4	0.10	0.00	0.06	0.05	0.00	0.16	0.00	0.16	0.02	0.00	0.02	8	0.00	0.00
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	2035	Haul	2	2	0.10	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4	0.00	0.00
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	2027	Haul	2	2	0.10	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4	0.00	0.00
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	2027	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	2029	Haul	60	60	0.10	0.05	0.94	0.72	0.00	2.44	0.00	2.44	0.24	0.00	0.24	128	0.00	0.02
Sepulveda-Metro G Line Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2030	10/31/2030	6	52	20	2030	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	2030	Haul	10	10	0.10	0.01	0.15	0.12	0.00	0.41	0.00	0.41	0.04	0.00	0.04	21	0.00	0.00
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	2031	Haul	4	4	0.10	0.00	0.06	0.05	0.00	0.16	0.00	0.16	0.02	0.00	0.02	8	0.00	0.00
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	2026	Haul	2	2	0.10	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	5	0.00	0.00
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	2027	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	2028	Haul	34	34	0.10	0.03	0.54	0.41	0.00	1.38	0.00	1.38	0.14	0.00	0.14	74	0.00	0.01
Sherman Way Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2029	10/31/2029	6	52	10	2029	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	2029	Haul	10	10	0.10	0.01	0.16	0.12	0.00	0.41	0.00	0.41	0.04	0.00	0.04	21	0.00	0.00
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	2030	Haul	4	4	0.10	0.00	0.06	0.05	0.00	0.16	0.00	0.16	0.02	0.00	0.02	8	0.00	0.00
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	2033	Haul	2	2	0.10	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4	0.00	0.00
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	2029	Haul	2	2	0.10	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4	0.00	0.00
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	2030	Haul	2	2	0.10	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4	0.00	0.00
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	2030	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	2031	Haul	4	4	0.10	0.00	0.06	0.05	0.00	0.16	0.00	0.16	0.02	0.00	0.02	8	0.00	0.00
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	2032	Haul	8	8	0.10	0.01	0.12	0.10	0.00	0.32	0.00	0.32	0.03	0.00	0.03	16	0.00	0.00
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Haul	2	2	0.10	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4	0.00	0.00
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Haul	14	14	0.10	0.01	0.21	0.17	0.00	0.57	0.00	0.57	0.06	0.00	0.06	29	0.00	0.00
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Haul	4	4	0.10	0.00	0.06	0.05	0.00	0.16	0.00	0.16	0.02	0.00	0.02	8	0.00	0.00
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Haul	14	14	0.10	0.01	0.21	0.17	0.00	0.57	0.00	0.57	0.06	0.00	0.06	28	0.00	0.00
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	2028	Haul	54	54	0.10	0.04	0.86	0.64	0.00	2.19	0.00	2.19	0.22	0.00	0.22	117	0.00	0.02
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Haul	8	8	0.10	0.01	0.13	0.10	0.00	0.32	0.00	0.32	0.03	0.00	0.03	17	0.00	0.00
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Haul	8	8	0.10	0.01	0.13	0.10	0.00	0.32	0.00	0.32	0.03	0.00	0.03	17	0.00	0.00

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** 100% HHDT; **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 5

SOIL/MATERIAL HAUL TRUCKS (ONSITE)

											Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	2029	Haul	4	4	0.10	0.00	0.01	0.01	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.8	0.00	0.00	0.9
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	2030	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	2030	Haul	88	88	0.10	0.01	0.22	0.17	0.00	0.57	0.00	0.57	0.06	0.00	0.06	26.8	0.00	0.00	28.1
D Line Wilshire-Westwood Stn_U-Alt5-TBM Pass Through-Maintenance	10/1/2031	11/30/2031	6	52	20	2031	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	2031	Haul	10	10	0.10	0.00	0.04	0.03	0.00	0.11	0.00	0.11	0.01	0.00	0.01	5.1	0.00	0.00	5.4
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	2033	Haul	4	4	0.10	0.00	0.02	0.02	0.00	0.06	0.00	0.06	0.01	0.00	0.01	2.9	0.00	0.00	3.0
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	2028	Haul	2	2	0.10	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	2029	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	2029	Haul	62	62	0.10	0.01	0.19	0.15	0.00	0.50	0.00	0.50	0.05	0.00	0.05	24.0	0.00	0.00	25.1
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	2031	Haul	8	8	0.10	0.00	0.03	0.02	0.00	0.07	0.00	0.07	0.01	0.00	0.01	3.1	0.00	0.00	3.3
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	2033	Haul	8	8	0.10	0.00	0.02	0.02	0.00	0.06	0.00	0.06	0.01	0.00	0.01	2.7	0.00	0.00	2.8
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	2033	Haul	4	4	0.10	0.00	0.02	0.02	0.00	0.06	0.00	0.06	0.01	0.00	0.01	2.9	0.00	0.00	3.0
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	2026	Haul	2	2	0.10	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	2026	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	2027	Haul	44	44	0.10	0.01	0.15	0.11	0.00	0.37	0.00	0.37	0.04	0.00	0.04	18.5	0.00	0.00	19.3
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	2028	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Mobilize/Launch Reach 2 TBM	10/1/2028	1/30/2029	7	122	20	2028	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Retrieve/Demob Reach 3 TBM	2/19/2032	5/18/2032	7	90	20	2032	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	2031	Haul	10	10	0.10	0.00	0.05	0.04	0.00	0.13	0.00	0.13	0.01	0.00	0.01	5.9	0.00	0.00	6.1
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	2033	Haul	4	4	0.10	0.00	0.02	0.02	0.00	0.06	0.00	0.06	0.01	0.00	0.01	2.9	0.00	0.00	3.0
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	2035	Haul	2	2	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	2027	Haul	2	2	0.10	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	2027	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	2029	Haul	60	60	0.10	0.01	0.19	0.15	0.00	0.50	0.00	0.50	0.05	0.00	0.05	24.0	0.00	0.00	25.1
Sepulveda-Metro G Line Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2030	10/31/2030	6	52	20	2030	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	2030	Haul	10	10	0.10	0.00	0.05	0.04	0.00	0.13	0.00	0.13	0.01	0.00	0.01	5.9	0.00	0.00	6.2
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	2031	Haul	4	4	0.10	0.00	0.02	0.02	0.00	0.06	0.00	0.06	0.01	0.00	0.01	2.9	0.00	0.00	3.1
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	2026	Haul	2	2	0.10	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	2027	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	2028	Haul	34	34	0.10	0.01	0.11	0.08	0.00	0.29	0.00	0.29	0.03	0.00	0.03	13.9	0.00	0.00	14.6
Sherman Way Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2029	10/31/2029	6	52	10	2029	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	2029	Haul	10	10	0.10	0.00	0.05	0.04	0.00	0.13	0.00	0.13	0.01	0.00	0.01	6.0	0.00	0.00	6.3
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	2030	Haul	4	4	0.10	0.00	0.02	0.02	0.00	0.06	0.00	0.06	0.01	0.00	0.01	3.0	0.00	0.00	3.1
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	2033	Haul	2	2	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	2029	Haul	2	2	0.10	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	2030	Haul	2	2	0.10	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	2030	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	2031	Haul	4	4	0.10	0.00	0.02	0.01	0.00	0.05	0.00	0.05	0.00	0.00	0.00	2.2	0.00	0.00	2.3
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	2032	Haul	8	8	0.10	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Haul	2	2	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.0
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Haul	14	14	0.10	0.00	0.01	0.01	0.00	0.02	0.00	0.02	0.00	0.00	0.00	1.0	0.00	0.00	1.1
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Haul	4	4	0.10	0.00	0.02	0.02	0.00	0.06	0.00	0.06	0.01	0.00	0.01	2.9	0.00	0.00	3.1
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Haul	14	14	0.10	0.00	0.01	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.7	0.00	0.00	0.7
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	2028	Haul	54	54	0.10	0.03	0.67	0.50	0.00	1.72	0.00	1.72	0.17	0.00	0.17	83.3	0.00	0.01	87.2
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Haul	8	8	0.10	0.01	0.19	0.14	0.00	0.48	0.00	0.48	0.05	0.00	0.05	23.4	0.00	0.00	24.6
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Haul	8	8	0.10	0.01	0.16	0.12	0.00	0.41	0.00	0.41	0.04	0.00	0.04	19.7	0.00	0.00	20.7

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** 100% HHDT; **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 5

SOIL/MATERIAL HAUL TRUCKS (OFFSITE)

											Running Emission Factor (g/mile)[1,2]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	2028	Haul	4	8	32.50	0.01	1.37	0.06	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1471.1	0.00	0.23
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	2029	Haul	-	-	32.50	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	2029	Haul	98	196	32.50	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	2029	Haul	-	-	32.50	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	2029	Haul	4	8	32.50	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	2030	Haul	154	308	32.50	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	2032	Haul	4	8	32.50	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	4/15/2030	6/11/2032	7	789	20	2030	Haul	4	8	32.50	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenun	6/12/2032	11/28/2033	7	535	20	2032	Haul	4	8	32.50	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installatior	12/1/2033	7/13/2034	7	225	20	2033	Haul	2	4	32.50	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Haul	4	8	32.50	0.01	1.37	0.06	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1471.1	0.00	0.23
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	2029	Haul	174	348	32.50	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	2033	Haul	4	8	32.50	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	3/1/2029	2/14/2033	7	1447	20	2029	Haul	4	8	32.50	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Slabs, Walkways, Plenum	8/23/2032	12/14/2034	7	844	20	2032	Haul	4	8	32.50	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	2034	Haul	2	4	32.50	0.01	1.27	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1356.7	0.00	0.21
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	2027	Haul	-	-	34.25	0.01	1.39	0.06	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1494.1	0.00	0.24
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	2028	Haul	-	-	34.25	0.01	1.37	0.06	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1471.1	0.00	0.23
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	2028	Haul	38	76	34.25	0.01	1.37	0.06	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1471.1	0.00	0.23
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	2028	Haul	-	-	34.25	0.01	1.37	0.06	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1471.1	0.00	0.23
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Haul	4	8	34.25	0.01	1.37	0.06	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1471.1	0.00	0.23
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	2029	Haul	154	308	34.25	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	2032	Haul	4	8	34.25	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	4/3/2029	2/19/2032	7	1053	20	2029	Haul	4	8	34.25	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Slabs, Walkways, Plenum	9/23/2031	5/18/2033	7	604	20	2031	Haul	4	8	34.25	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	2033	Haul	2	4	34.25	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	2030	Haul	6	12	34.25	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	2030	Haul	-	-	34.25	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	2030	Haul	28	56	34.25	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	2031	Haul	-	-	34.25	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Haul	-	-	34.25	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	2029	Haul	-	-	34.25	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	2030	Haul	-	-	34.25	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	2030	Haul	-	-	34.25	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	10/29/2030	12/24/2030	6	49	20	2030	Haul	4	8	34.25	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	2030	Haul	4	8	34.25	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	12/20/2031	1/20/2032	6	27	20	2031	Haul	4	8	34.25	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	2032	Haul	4	8	34.25	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Haul	4	8	34.25	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Segment 6-Reach 3 Portal to MSF-Paving	7/19/2032	7/14/2033	6	310	20	2032	Haul	-	-	34.25	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Haul	6	12	32.50	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	2030	Haul	-	-	32.50	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	2030	Haul	98	196	32.50	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	2030	Haul	-	-	32.50	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	2030	Haul	4	8	32.50	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Haul	2	4	32.50	0.01	1.39	0.06	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1494.1	0.00	0.24
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Haul	-	-	32.50	0.01	1.37	0.06	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1471.1	0.00	0.23
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	2029	Haul	48	96	32.50	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Metro E Line Stn_U-Alt5-TBM Pass Through-Maintenance	8/1/2030	9/30/2030	6	52	20	2030	Haul	-	-	32.50	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	2030	Haul	8	16	32.50	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	2031	Haul	4	8	32.50	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	2034	Haul	2	4	32.50	0.01	1.27	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1356.7	0.00	0.21
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	2028	Haul	2	4	32.50	0.01	1.37	0.06	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1471.1	0.00	0.23
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	2029	Haul	-	-	32.50	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	2029	Haul	56	112	32.50	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Santa Monica Stn_U-Alt5-TBM Pass Through-Maintenance	3/1/2031	4/30/2031	6	52	20	2031	Haul	-	-	32.50	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	2030	Haul	10	20	32.50	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	2032	Haul	4	8	32.50	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22

Sepulveda Transit Corridor Project - ALTERNATIVE 5

SOIL/MATERIAL HAUL TRUCKS (OFFSITE)

											Non-Running Emission Factor (g/trip)[1,3]													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	2028	Haul	4	8	32.50	0.36	6.75	5.37	0.01	-	0.00	0.00	-	0.00	0.00	781.5	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	2029	Haul	-	-	32.50	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	2029	Haul	98	196	32.50	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	2029	Haul	-	-	32.50	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	2029	Haul	4	8	32.50	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	2030	Haul	154	308	32.50	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	2032	Haul	4	8	32.50	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.6	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	4/15/2030	6/11/2032	7	789	20	2030	Haul	4	8	32.50	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenun	6/12/2032	11/28/2033	7	535	20	2032	Haul	4	8	32.50	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.6	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installatior	12/1/2033	7/13/2034	7	225	20	2033	Haul	2	4	32.50	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.3	0.02	0.12
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Haul	4	8	32.50	0.36	6.75	5.37	0.01	-	0.00	0.00	-	0.00	0.00	781.5	0.02	0.12
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	2029	Haul	174	348	32.50	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	2033	Haul	4	8	32.50	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.3	0.02	0.12
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	3/1/2029	2/14/2033	7	1447	20	2029	Haul	4	8	32.50	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Slabs, Walkways, Plenum	8/23/2032	12/14/2034	7	844	20	2032	Haul	4	8	32.50	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.6	0.02	0.12
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	2034	Haul	2	4	32.50	0.37	6.35	5.48	0.01	-	0.00	0.00	-	0.00	0.00	734.2	0.02	0.12
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	2027	Haul	-	-	34.25	0.36	6.88	5.37	0.01	-	0.00	0.00	-	0.00	0.00	795.6	0.02	0.13
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	2028	Haul	-	-	34.25	0.36	6.75	5.37	0.01	-	0.00	0.00	-	0.00	0.00	781.5	0.02	0.12
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	2028	Haul	38	76	34.25	0.36	6.75	5.37	0.01	-	0.00	0.00	-	0.00	0.00	781.5	0.02	0.12
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	2028	Haul	-	-	34.25	0.36	6.75	5.37	0.01	-	0.00	0.00	-	0.00	0.00	781.5	0.02	0.12
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Haul	4	8	34.25	0.36	6.75	5.37	0.01	-	0.00	0.00	-	0.00	0.00	781.5	0.02	0.12
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	2029	Haul	154	308	34.25	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	2032	Haul	4	8	34.25	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.6	0.02	0.12
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	4/3/2029	2/19/2032	7	1053	20	2029	Haul	4	8	34.25	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Slabs, Walkways, Plenum	9/23/2031	5/18/2033	7	604	20	2031	Haul	4	8	34.25	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.4	0.02	0.12
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	2033	Haul	2	4	34.25	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.3	0.02	0.12
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	2030	Haul	6	12	34.25	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	2030	Haul	-	-	34.25	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	2030	Haul	28	56	34.25	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	2031	Haul	-	-	34.25	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.4	0.02	0.12
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Haul	-	-	34.25	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.6	0.02	0.12
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	2029	Haul	-	-	34.25	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	2030	Haul	-	-	34.25	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	2030	Haul	-	-	34.25	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	10/29/2030	12/24/2030	6	49	20	2030	Haul	4	8	34.25	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	2030	Haul	4	8	34.25	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	12/20/2031	1/20/2032	6	27	20	2031	Haul	4	8	34.25	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.4	0.02	0.12
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	2032	Haul	4	8	34.25	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.6	0.02	0.12
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Haul	4	8	34.25	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.6	0.02	0.12
Segment 6-Reach 3 Portal to MSF-Paving	7/19/2032	7/14/2033	6	310	20	2032	Haul	-	-	34.25	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.6	0.02	0.12
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Haul	6	12	32.50	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	2030	Haul	-	-	32.50	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	2030	Haul	98	196	32.50	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	2030	Haul	-	-	32.50	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	2030	Haul	4	8	32.50	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Haul	2	4	32.50	0.36	6.88	5.37	0.01	-	0.00	0.00	-	0.00	0.00	795.6	0.02	0.13
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Haul	-	-	32.50	0.36	6.75	5.37	0.01	-	0.00	0.00	-	0.00	0.00	781.5	0.02	0.12
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	2029	Haul	48	96	32.50	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
Metro E Line Stn_U-Alt5-TBM Pass Through-Maintenance	8/1/2030	9/30/2030	6	52	20	2030	Haul	-	-	32.50	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	2030	Haul	8	16	32.50	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	2031	Haul	4	8	32.50	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.4	0.02	0.12
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	2034	Haul	2	4	32.50	0.37	6.35	5.48	0.01	-	0.00	0.00	-	0.00	0.00	734.2	0.02	0.12
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	2028	Haul	2	4	32.50	0.36	6.75	5.37	0.01	-	0.00	0.00	-	0.00	0.00	781.5	0.02	0.12
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	2029	Haul	-	-	32.50	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	2029	Haul	56	112	32.50	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
Santa Monica Stn_U-Alt5-TBM Pass Through-Maintenance	3/1/2031	4/30/2031	6	52	20	2031	Haul	-	-	32.50	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.4	0.02	0.12
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	2030	Haul	10	20	32.50	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	2032	Haul	4	8	32.50	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.6	0.02	0.12

Sepulveda Transit Corridor Project - ALTERNATIVE 5

SOIL/MATERIAL HAUL TRUCKS (OFFSITE)

											Daily Emissions (lb/day)													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	2028	Haul	4	8	32.50	0.01	0.90	0.13	0.01	0.24	0.01	0.25	0.06	0.01	0.08	857	0.00	0.14
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	2029	Haul	-	-	32.50	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	2029	Haul	98	196	32.50	0.31	21.75	3.07	0.20	5.81	0.37	6.18	1.56	0.35	1.91	20682	0.01	3.26
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	2029	Haul	-	-	32.50	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	2029	Haul	4	8	32.50	0.01	0.89	0.13	0.01	0.24	0.01	0.25	0.06	0.01	0.08	844	0.00	0.13
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	2030	Haul	154	308	32.50	0.49	33.71	4.80	0.30	9.15	0.58	9.72	2.46	0.55	3.01	32034	0.02	5.05
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	2032	Haul	4	8	32.50	0.01	0.86	0.12	0.01	0.24	0.01	0.25	0.06	0.01	0.08	810	0.00	0.13
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	4/15/2030	6/11/2032	7	789	20	2030	Haul	4	8	32.50	0.01	0.88	0.12	0.01	0.24	0.01	0.25	0.06	0.01	0.08	832	0.00	0.13
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenun	6/12/2032	11/28/2033	7	535	20	2032	Haul	4	8	32.50	0.01	0.86	0.12	0.01	0.24	0.01	0.25	0.06	0.01	0.08	810	0.00	0.13
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installatior	12/1/2033	7/13/2034	7	225	20	2033	Haul	2	4	32.50	0.01	0.42	0.06	0.00	0.12	0.01	0.13	0.03	0.01	0.04	400	0.00	0.06
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Haul	4	8	32.50	0.01	0.90	0.13	0.01	0.24	0.01	0.25	0.06	0.01	0.08	857	0.00	0.14
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	2029	Haul	174	348	32.50	0.56	38.63	5.45	0.35	10.32	0.65	10.97	2.77	0.62	3.40	36721	0.03	5.79
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	2033	Haul	4	8	32.50	0.01	0.85	0.12	0.01	0.24	0.01	0.25	0.06	0.01	0.08	800	0.00	0.13
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	3/1/2029	2/14/2033	7	1447	20	2029	Haul	4	8	32.50	0.01	0.89	0.13	0.01	0.24	0.01	0.25	0.06	0.01	0.08	844	0.00	0.13
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Slabs, Walkways, Plenum	8/23/2032	12/14/2034	7	844	20	2032	Haul	4	8	32.50	0.01	0.86	0.12	0.01	0.24	0.01	0.25	0.06	0.01	0.08	810	0.00	0.13
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	2034	Haul	2	4	32.50	0.01	0.42	0.06	0.00	0.12	0.01	0.13	0.03	0.01	0.04	395	0.00	0.06
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	2027	Haul	-	-	34.25	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	2028	Haul	-	-	34.25	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	2028	Haul	38	76	34.25	0.13	8.98	1.22	0.08	2.37	0.15	2.52	0.64	0.14	0.78	8573	0.01	1.35
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	2028	Haul	-	-	34.25	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Haul	4	8	34.25	0.01	0.95	0.13	0.01	0.25	0.02	0.27	0.07	0.02	0.08	902	0.00	0.14
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	2029	Haul	154	308	34.25	0.51	35.78	4.89	0.32	9.63	0.61	10.23	2.59	0.58	3.17	34222	0.02	5.39
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	2032	Haul	4	8	34.25	0.01	0.90	0.13	0.01	0.25	0.02	0.27	0.07	0.02	0.08	852	0.00	0.13
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	4/3/2029	2/19/2032	7	1053	20	2029	Haul	4	8	34.25	0.01	0.93	0.13	0.01	0.25	0.02	0.27	0.07	0.02	0.08	889	0.00	0.14
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Slabs, Walkways, Plenum	9/23/2031	5/18/2033	7	604	20	2031	Haul	4	8	34.25	0.01	0.91	0.13	0.01	0.25	0.02	0.27	0.07	0.02	0.08	864	0.00	0.14
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	2033	Haul	2	4	34.25	0.01	0.44	0.06	0.00	0.13	0.01	0.13	0.03	0.01	0.04	421	0.00	0.07
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	2030	Haul	6	12	34.25	0.02	1.37	0.19	0.01	0.38	0.02	0.40	0.10	0.02	0.12	1314	0.00	0.21
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	2030	Haul	-	-	34.25	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	2030	Haul	28	56	34.25	0.09	6.42	0.88	0.06	1.75	0.11	1.86	0.47	0.11	0.58	6133	0.00	0.97
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	2031	Haul	-	-	34.25	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Haul	-	-	34.25	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	2029	Haul	-	-	34.25	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	2030	Haul	-	-	34.25	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	2030	Haul	-	-	34.25	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	10/29/2030	12/24/2030	6	49	20	2030	Haul	4	8	34.25	0.01	0.92	0.13	0.01	0.25	0.02	0.27	0.07	0.02	0.08	876	0.00	0.14
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	2030	Haul	4	8	34.25	0.01	0.92	0.13	0.01	0.25	0.02	0.27	0.07	0.02	0.08	876	0.00	0.14
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	12/20/2031	1/20/2032	6	27	20	2031	Haul	4	8	34.25	0.01	0.91	0.13	0.01	0.25	0.02	0.27	0.07	0.02	0.08	864	0.00	0.14
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	2032	Haul	4	8	34.25	0.01	0.90	0.13	0.01	0.25	0.02	0.27	0.07	0.02	0.08	852	0.00	0.13
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Haul	4	8	34.25	0.01	0.90	0.13	0.01	0.25	0.02	0.27	0.07	0.02	0.08	852	0.00	0.13
Segment 6-Reach 3 Portal to MSF-Paving	7/19/2032	7/14/2033	6	310	20	2032	Haul	-	-	34.25	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Haul	6	12	32.50	0.02	1.31	0.19	0.01	0.36	0.02	0.38	0.10	0.02	0.12	1248	0.00	0.20
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	2030	Haul	-	-	32.50	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	2030	Haul	98	196	32.50	0.31	21.45	3.06	0.19	5.82	0.37	6.19	1.57	0.35	1.92	20385	0.01	3.21
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	2030	Haul	-	-	32.50	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	2030	Haul	4	8	32.50	0.01	0.88	0.12	0.01	0.24	0.01	0.25	0.06	0.01	0.08	832	0.00	0.13
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Haul	2	4	32.50	0.01	0.46	0.06	0.00	0.12	0.01	0.13	0.03	0.01	0.04	435	0.00	0.07
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Haul	-	-	32.50	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	2029	Haul	48	96	32.50	0.15	10.66	1.50	0.10	2.85	0.18	3.03	0.77	0.17	0.94	10130	0.01	1.60
Metro E Line Stn_U-Alt5-TBM Pass Through-Maintenance	8/1/2030	9/30/2030	6	52	20	2030	Haul	-	-	32.50	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	2030	Haul	8	16	32.50	0.03	1.75	0.25	0.02	0.48	0.03	0.51	0.13	0.03	0.16	1664	0.00	0.26
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	2031	Haul	4	8	32.50	0.01	0.87	0.12	0.01	0.24	0.01	0.25	0.06	0.01	0.08	820	0.00	0.13
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	2034	Haul	2	4	32.50	0.01	0.42	0.06	0.00	0.12	0.01	0.13	0.03	0.01	0.04	395	0.00	0.06
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	2028	Haul	2	4	32.50	0.01	0.45	0.06	0.00	0.12	0.01	0.13	0.03	0.01	0.04	428	0.00	0.07
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	2029	Haul	-	-	32.50	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	2029	Haul	56	112	32.50	0.18	12.43	1.76	0.11	3.32	0.21	3.53	0.89	0.20	1.09	11818	0.01	1.86
Santa Monica Stn_U-Alt5-TBM Pass Through-Maintenance	3/1/2031	4/30/2031	6	52	20	2031	Haul	-	-	32.50	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	2030	Haul	10	20	32.50	0.03	2.19	0.31	0.02	0.59	0.04	0.63	0.16	0.04	0.20	2080	0.00	0.33
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	2032	Haul	4	8	32.50	0.01	0.86	0.12	0.01	0.24	0.01	0.25	0.06	0.01	0.08	810	0.00	0.13

Sepulveda Transit Corridor Project - ALTERNATIVE 5

SOIL/MATERIAL HAUL TRUCKS (OFFSITE)

											Total Emissions (tons)											Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	2028	Haul	4	8	32.50	0.00	0.04	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	31	0.00	0.00	32
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	2029	Haul	-	-	32.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	2029	Haul	98	196	32.50	0.02	1.13	0.16	0.01	0.30	0.02	0.32	0.08	0.02	0.10	976	0.00	0.15	1021
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	2029	Haul	-	-	32.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	2029	Haul	4	8	32.50	0.00	0.05	0.01	0.00	0.01	0.00	0.02	0.00	0.00	0.00	46	0.00	0.01	48
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	2030	Haul	154	308	32.50	0.19	13.28	1.89	0.12	3.60	0.23	3.83	0.97	0.22	1.19	11450	0.01	1.80	11988
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	2032	Haul	4	8	32.50	0.00	0.04	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	32	0.00	0.01	34
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	4/15/2030	6/11/2032	7	789	20	2030	Haul	4	8	32.50	0.01	0.35	0.05	0.00	0.09	0.01	0.10	0.03	0.01	0.03	298	0.00	0.05	312
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenun	6/12/2032	11/28/2033	7	535	20	2032	Haul	4	8	32.50	0.00	0.23	0.03	0.00	0.06	0.00	0.07	0.02	0.00	0.02	196	0.00	0.03	206
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installatior	12/1/2033	7/13/2034	7	225	20	2033	Haul	2	4	32.50	0.00	0.05	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	41	0.00	0.01	43
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Haul	4	8	32.50	0.00	0.06	0.01	0.00	0.01	0.00	0.02	0.00	0.00	0.00	47	0.00	0.01	50
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	2029	Haul	174	348	32.50	0.41	28.18	3.98	0.25	7.53	0.47	8.00	2.02	0.45	2.48	24302	0.02	3.83	25443
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	2033	Haul	4	8	32.50	0.00	0.04	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	33	0.00	0.01	34
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	3/1/2029	2/14/2033	7	1447	20	2029	Haul	4	8	32.50	0.01	0.64	0.09	0.01	0.17	0.01	0.18	0.05	0.01	0.06	554	0.00	0.09	580
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Slabs, Walkways, Plenum	8/23/2032	12/14/2034	7	844	20	2032	Haul	4	8	32.50	0.01	0.36	0.05	0.00	0.10	0.01	0.11	0.03	0.01	0.03	310	0.00	0.05	324
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	2034	Haul	2	4	32.50	0.00	0.08	0.01	0.00	0.02	0.00	0.02	0.01	0.00	0.01	70	0.00	0.01	74
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	2027	Haul	-	-	34.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	2028	Haul	-	-	34.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	2028	Haul	38	76	34.25	0.01	0.48	0.06	0.00	0.13	0.01	0.13	0.03	0.01	0.04	412	0.00	0.06	432
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	2028	Haul	-	-	34.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Haul	4	8	34.25	0.00	0.06	0.01	0.00	0.02	0.00	0.02	0.00	0.00	0.01	50	0.00	0.01	52
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	2029	Haul	154	308	34.25	0.28	19.93	2.72	0.18	5.36	0.34	5.70	1.44	0.32	1.76	17292	0.01	2.72	18105
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	2032	Haul	4	8	34.25	0.00	0.04	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	35	0.00	0.01	36
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	4/3/2029	2/19/2032	7	1053	20	2029	Haul	4	8	34.25	0.01	0.49	0.07	0.00	0.13	0.01	0.14	0.04	0.01	0.04	425	0.00	0.07	445
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Slabs, Walkways, Plenum	9/23/2031	5/18/2033	7	604	20	2031	Haul	4	8	34.25	0.00	0.27	0.04	0.00	0.08	0.00	0.08	0.02	0.00	0.02	237	0.00	0.04	248
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	2033	Haul	2	4	34.25	0.00	0.09	0.01	0.00	0.02	0.00	0.03	0.01	0.00	0.01	75	0.00	0.01	78
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	2030	Haul	6	12	34.25	0.00	0.05	0.01	0.00	0.01	0.00	0.02	0.00	0.00	0.00	45	0.00	0.01	47
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	2030	Haul	-	-	34.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	2030	Haul	28	56	34.25	0.01	0.83	0.11	0.01	0.23	0.01	0.24	0.06	0.01	0.08	723	0.00	0.11	757
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	2031	Haul	-	-	34.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Haul	-	-	34.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	2029	Haul	-	-	34.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	2030	Haul	-	-	34.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	2030	Haul	-	-	34.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	10/29/2030	12/24/2030	6	49	20	2030	Haul	4	8	34.25	0.00	0.02	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	19	0.00	0.00	20
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	2030	Haul	4	8	34.25	0.00	0.14	0.02	0.00	0.04	0.00	0.04	0.01	0.00	0.01	123	0.00	0.02	129
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	12/20/2031	1/20/2032	6	27	20	2031	Haul	4	8	34.25	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11	0.00	0.00	11
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	2032	Haul	4	8	34.25	0.00	0.10	0.01	0.00	0.03	0.00	0.03	0.01	0.00	0.01	90	0.00	0.01	95
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Haul	4	8	34.25	0.00	0.07	0.01	0.00	0.02	0.00	0.02	0.01	0.00	0.01	60	0.00	0.01	63
Segment 6-Reach 3 Portal to MSF-Paving	7/19/2032	7/14/2033	6	310	20	2032	Haul	-	-	34.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Haul	6	12	32.50	0.00	0.04	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	32	0.00	0.00	33
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	2030	Haul	-	-	32.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	2030	Haul	98	196	32.50	0.01	0.56	0.08	0.01	0.15	0.01	0.16	0.04	0.01	0.05	481	0.00	0.08	503
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	2030	Haul	-	-	32.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	2030	Haul	4	8	32.50	0.00	0.14	0.02	0.00	0.04	0.00	0.04	0.01	0.00	0.01	123	0.00	0.02	128
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Haul	2	4	32.50	0.00	0.05	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	41	0.00	0.01	43
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Haul	-	-	32.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	2029	Haul	48	96	32.50	0.02	1.70	0.24	0.02	0.45	0.03	0.48	0.12	0.03	0.15	1466	0.00	0.23	1535
Metro E Line Stn_U-Alt5-TBM Pass Through-Maintenance	8/1/2030	9/30/2030	6	52	20	2030	Haul	-	-	32.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	2030	Haul	8	16	32.50	0.01	0.55	0.08	0.00	0.15	0.01	0.16	0.04	0.01	0.05	472	0.00	0.07	494
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	2031	Haul	4	8	32.50	0.00	0.34	0.05	0.00	0.09	0.01	0.10	0.03	0.01	0.03	291	0.00	0.05	305
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	2034	Haul	2	4	32.50	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10	0.00	0.00	11
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	2028	Haul	2	4	32.50	0.00	0.05	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	40	0.00	0.01	42
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	2029	Haul	-	-	32.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	2029	Haul	56	112	32.50	0.03	1.93	0.27	0.02	0.52	0.03	0.55	0.14	0.03	0.17	1667	0.00	0.26	1745
Santa Monica Stn_U-Alt5-TBM Pass Through-Maintenance	3/1/2031	4/30/2031	6	52	20	2031	Haul	-	-	32.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	2030	Haul	10	20	32.50	0.01	0.68	0.10	0.01	0.18	0.01	0.20	0.05	0.01	0.06	585	0.00	0.09	612
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	2032	Haul	4	8	32.50	0.00	0.33	0.05	0.00	0.09	0.01	0.10	0.02	0.01	0.03	285	0.00	0.04	298

Sepulveda Transit Corridor Project - ALTERNATIVE 5

SOIL/MATERIAL HAUL TRUCKS (OFFSITE)

											Running Emission Factor (g/mile)[1,2]													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	2029	Haul	4	8	32.50	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	2030	Haul	-	-	32.50	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	2030	Haul	88	176	32.50	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
D Line Wilshire-Westwood Stn_U-Alt5-TBM Pass Through-Maintenance	10/1/2031	11/30/2031	6	52	20	2031	Haul	-	-	32.50	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	2031	Haul	10	20	32.50	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	2033	Haul	4	8	32.50	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	2028	Haul	2	4	32.50	0.01	1.37	0.06	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1471.1	0.00	0.23
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	2029	Haul	-	-	32.50	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	2029	Haul	62	124	32.50	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	2031	Haul	8	16	32.50	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	2033	Haul	8	16	32.50	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	2033	Haul	4	8	32.50	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	2026	Haul	2	4	34.25	0.01	1.43	0.06	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1516.1	0.00	0.24
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	2026	Haul	-	-	34.25	0.01	1.43	0.06	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1516.1	0.00	0.24
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	2027	Haul	44	88	34.25	0.01	1.39	0.06	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1494.1	0.00	0.24
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	2028	Haul	-	-	34.25	0.01	1.37	0.06	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1471.1	0.00	0.23
Ventura Blvd Stn_U-Alt5-Mobilize/Launch Reach 2 TBM	10/1/2028	1/30/2029	7	122	20	2028	Haul	-	-	34.25	0.01	1.37	0.06	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1471.1	0.00	0.23
Ventura Blvd Stn_U-Alt5-Retrieve/Demob Reach 3 TBM	2/19/2032	5/18/2032	7	90	20	2032	Haul	-	-	34.25	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	2031	Haul	10	20	34.25	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	2033	Haul	4	8	34.25	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	2035	Haul	2	4	34.25	0.01	1.25	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1342.3	0.00	0.21
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	2027	Haul	2	4	34.25	0.01	1.39	0.06	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1494.1	0.00	0.24
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	2027	Haul	-	-	34.25	0.01	1.39	0.06	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1494.1	0.00	0.24
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	2029	Haul	60	120	34.25	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Sepulveda-Metro G Line Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2030	10/31/2030	6	52	20	2030	Haul	-	-	34.25	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	2030	Haul	10	20	34.25	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	2031	Haul	4	8	34.25	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	2026	Haul	2	4	34.25	0.01	1.43	0.06	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1516.1	0.00	0.24
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	2027	Haul	-	-	34.25	0.01	1.39	0.06	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1494.1	0.00	0.24
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	2028	Haul	34	68	34.25	0.01	1.37	0.06	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1471.1	0.00	0.23
Sherman Way Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2029	10/31/2029	6	52	10	2029	Haul	-	-	34.25	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	2029	Haul	10	20	34.25	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	2030	Haul	4	8	34.25	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	2033	Haul	2	4	34.25	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	2029	Haul	2	4	34.25	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	2030	Haul	2	4	34.25	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	2030	Haul	-	-	34.25	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	2031	Haul	4	8	34.25	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	2032	Haul	8	16	34.25	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Haul	-	-	34.25	0.01	1.27	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1356.7	0.00	0.21
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Haul	-	-	34.25	0.01	1.27	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1356.7	0.00	0.21
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Haul	2	4	34.25	0.01	1.27	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1356.7	0.00	0.21
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Haul	-	-	34.25	0.01	1.27	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1356.7	0.00	0.21
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Haul	14	28	32.50	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Haul	-	-	32.50	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Haul	-	-	32.50	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Haul	4	8	32.50	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Haul	14	28	32.50	0.01	1.27	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1356.7	0.00	0.21
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Haul	-	-	32.50	0.01	1.27	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1356.7	0.00	0.21
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Haul	-	-	32.50	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	2028	Haul	54	108	32.50	0.01	1.37	0.06	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1471.1	0.00	0.23
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Haul	8	16	34.25	0.01	1.37	0.06	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1471.1	0.00	0.23
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Haul	8	16	32.50	0.01	1.37	0.06	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1471.1	0.00	0.23

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate Speeds; **Fleet Mix:100%** HHDT);
Fuel Type: Diesel
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 5

SOIL/MATERIAL HAUL TRUCKS (OFFSITE)

											Non-Running Emission Factor (g/trip)[1,3]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	2029	Haul	4	8	32.50	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	2030	Haul	-	-	32.50	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	2030	Haul	88	176	32.50	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
D Line Wilshire-Westwood Stn_U-Alt5-TBM Pass Through-Maintenance	10/1/2031	11/30/2031	6	52	20	2031	Haul	-	-	32.50	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.4	0.02	0.12
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	2031	Haul	10	20	32.50	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.4	0.02	0.12
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	2033	Haul	4	8	32.50	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.3	0.02	0.12
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	2028	Haul	2	4	32.50	0.36	6.75	5.37	0.01	-	0.00	0.00	-	0.00	0.00	781.5	0.02	0.12
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	2029	Haul	-	-	32.50	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	2029	Haul	62	124	32.50	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	2031	Haul	8	16	32.50	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.4	0.02	0.12
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	2033	Haul	8	16	32.50	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.3	0.02	0.12
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	2033	Haul	4	8	32.50	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.3	0.02	0.12
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	2026	Haul	2	4	34.25	0.36	6.99	5.37	0.01	-	0.00	0.00	-	0.00	0.00	810.7	0.02	0.13
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	2026	Haul	-	-	34.25	0.36	6.99	5.37	0.01	-	0.00	0.00	-	0.00	0.00	810.7	0.02	0.13
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	2027	Haul	44	88	34.25	0.36	6.88	5.37	0.01	-	0.00	0.00	-	0.00	0.00	795.6	0.02	0.13
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	2028	Haul	-	-	34.25	0.36	6.75	5.37	0.01	-	0.00	0.00	-	0.00	0.00	781.5	0.02	0.12
Ventura Blvd Stn_U-Alt5-Mobilize/Launch Reach 2 TBM	10/1/2028	1/30/2029	7	122	20	2028	Haul	-	-	34.25	0.36	6.75	5.37	0.01	-	0.00	0.00	-	0.00	0.00	781.5	0.02	0.12
Ventura Blvd Stn_U-Alt5-Retrieve/Demob Reach 3 TBM	2/19/2032	5/18/2032	7	90	20	2032	Haul	-	-	34.25	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.6	0.02	0.12
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	2031	Haul	10	20	34.25	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.4	0.02	0.12
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	2033	Haul	4	8	34.25	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.3	0.02	0.12
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	2035	Haul	2	4	34.25	0.37	6.33	5.50	0.01	-	0.00	0.00	-	0.00	0.00	731.2	0.02	0.12
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	2027	Haul	2	4	34.25	0.36	6.88	5.37	0.01	-	0.00	0.00	-	0.00	0.00	795.6	0.02	0.13
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	2027	Haul	-	-	34.25	0.36	6.88	5.37	0.01	-	0.00	0.00	-	0.00	0.00	795.6	0.02	0.13
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	2029	Haul	60	120	34.25	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
Sepulveda-Metro G Line Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2030	10/31/2030	6	52	20	2030	Haul	-	-	34.25	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	2030	Haul	10	20	34.25	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	2031	Haul	4	8	34.25	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.4	0.02	0.12
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	2026	Haul	2	4	34.25	0.36	6.99	5.37	0.01	-	0.00	0.00	-	0.00	0.00	810.7	0.02	0.13
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	2027	Haul	-	-	34.25	0.36	6.88	5.37	0.01	-	0.00	0.00	-	0.00	0.00	795.6	0.02	0.13
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	2028	Haul	34	68	34.25	0.36	6.75	5.37	0.01	-	0.00	0.00	-	0.00	0.00	781.5	0.02	0.12
Sherman Way Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2029	10/31/2029	6	52	10	2029	Haul	-	-	34.25	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	2029	Haul	10	20	34.25	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	2030	Haul	4	8	34.25	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	2033	Haul	2	4	34.25	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.3	0.02	0.12
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	2029	Haul	2	4	34.25	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	2030	Haul	2	4	34.25	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	2030	Haul	-	-	34.25	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	2031	Haul	4	8	34.25	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.4	0.02	0.12
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	2032	Haul	8	16	34.25	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.6	0.02	0.12
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Haul	-	-	34.25	0.37	6.35	5.48	0.01	-	0.00	0.00	-	0.00	0.00	734.2	0.02	0.12
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Haul	-	-	34.25	0.37	6.35	5.48	0.01	-	0.00	0.00	-	0.00	0.00	734.2	0.02	0.12
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Haul	2	4	34.25	0.37	6.35	5.48	0.01	-	0.00	0.00	-	0.00	0.00	734.2	0.02	0.12
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Haul	-	-	34.25	0.37	6.35	5.48	0.01	-	0.00	0.00	-	0.00	0.00	734.2	0.02	0.12
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Haul	14	28	32.50	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.6	0.02	0.12
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Haul	-	-	32.50	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.6	0.02	0.12
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Haul	-	-	32.50	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.6	0.02	0.12
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Haul	4	8	32.50	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.6	0.02	0.12
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Haul	14	28	32.50	0.37	6.35	5.48	0.01	-	0.00	0.00	-	0.00	0.00	734.2	0.02	0.12
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Haul	-	-	32.50	0.37	6.35	5.48	0.01	-	0.00	0.00	-	0.00	0.00	734.2	0.02	0.12
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Haul	-	-	32.50	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.6	0.02	0.12
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	2028	Haul	54	108	32.50	0.36	6.75	5.37	0.01	-	0.00	0.00	-	0.00	0.00	781.5	0.02	0.12
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Haul	8	16	34.25	0.36	6.75	5.37	0.01	-	0.00	0.00	-	0.00	0.00	781.5	0.02	0.12
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Haul	8	16	32.50	0.36	6.75	5.37	0.01	-	0.00	0.00	-	0.00	0.00	781.5	0.02	0.12

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate Speeds; **Fleet Mix:100%** HHDT);
Fuel Type: Diesel

2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.

3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 5

SOIL/MATERIAL HAUL TRUCKS (OFFSITE)

											Daily Emissions (lb/day)												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	2029	Haul	4	8	32.50	0.01	0.89	0.13	0.01	0.24	0.01	0.25	0.06	0.01	0.08	844	0.00	0.13
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	2030	Haul	-	-	32.50	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	2030	Haul	88	176	32.50	0.28	19.27	2.74	0.17	5.23	0.33	5.56	1.41	0.31	1.72	18305	0.01	2.88
D Line Wilshire-Westwood Stn_U-Alt5-TBM Pass Through-Maintenance	10/1/2031	11/30/2031	6	52	20	2031	Haul	-	-	32.50	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	2031	Haul	10	20	32.50	0.03	2.16	0.31	0.02	0.59	0.04	0.63	0.16	0.04	0.20	2051	0.00	0.32
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	2033	Haul	4	8	32.50	0.01	0.85	0.12	0.01	0.24	0.01	0.25	0.06	0.01	0.08	800	0.00	0.13
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	2028	Haul	2	4	32.50	0.01	0.45	0.06	0.00	0.12	0.01	0.13	0.03	0.01	0.04	428	0.00	0.07
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	2029	Haul	-	-	32.50	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	2029	Haul	62	124	32.50	0.20	13.76	1.94	0.12	3.68	0.23	3.91	0.99	0.22	1.21	13084	0.01	2.06
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	2031	Haul	8	16	32.50	0.03	1.73	0.25	0.02	0.48	0.03	0.51	0.13	0.03	0.16	1641	0.00	0.26
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	2033	Haul	8	16	32.50	0.03	1.69	0.25	0.02	0.48	0.03	0.51	0.13	0.03	0.16	1600	0.00	0.25
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	2033	Haul	4	8	32.50	0.01	0.85	0.12	0.01	0.24	0.01	0.25	0.06	0.01	0.08	800	0.00	0.13
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	2026	Haul	2	4	34.25	0.01	0.49	0.07	0.00	0.12	0.01	0.13	0.03	0.01	0.04	465	0.00	0.07
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	2026	Haul	-	-	34.25	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	2027	Haul	44	88	34.25	0.15	10.60	1.42	0.10	2.74	0.17	2.92	0.74	0.17	0.90	10082	0.01	1.59
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	2028	Haul	-	-	34.25	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Mobilize/Launch Reach 2 TBM	10/1/2028	1/30/2029	7	122	20	2028	Haul	-	-	34.25	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Retrieve/Demob Reach 3 TBM	2/19/2032	5/18/2032	7	90	20	2032	Haul	-	-	34.25	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	2031	Haul	10	20	34.25	0.03	2.27	0.31	0.02	0.63	0.04	0.67	0.17	0.04	0.21	2160	0.00	0.34
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	2033	Haul	4	8	34.25	0.01	0.89	0.12	0.01	0.25	0.02	0.27	0.07	0.02	0.08	842	0.00	0.13
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	2035	Haul	2	4	34.25	0.01	0.43	0.06	0.00	0.13	0.01	0.13	0.03	0.01	0.04	412	0.00	0.06
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	2027	Haul	2	4	34.25	0.01	0.48	0.06	0.00	0.12	0.01	0.13	0.03	0.01	0.04	458	0.00	0.07
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	2027	Haul	-	-	34.25	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	2029	Haul	60	120	34.25	0.20	13.94	1.91	0.13	3.75	0.24	3.99	1.01	0.23	1.23	13333	0.01	2.10
Sepulveda-Metro G Line Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2030	10/31/2030	6	52	20	2030	Haul	-	-	34.25	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	2030	Haul	10	20	34.25	0.03	2.29	0.32	0.02	0.63	0.04	0.67	0.17	0.04	0.21	2190	0.00	0.35
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	2031	Haul	4	8	34.25	0.01	0.91	0.13	0.01	0.25	0.02	0.27	0.07	0.02	0.08	864	0.00	0.14
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	2026	Haul	2	4	34.25	0.01	0.49	0.07	0.00	0.12	0.01	0.13	0.03	0.01	0.04	465	0.00	0.07
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	2027	Haul	-	-	34.25	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	2028	Haul	34	68	34.25	0.11	8.04	1.09	0.07	2.12	0.13	2.26	0.57	0.13	0.70	7670	0.01	1.21
Sherman Way Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2029	10/31/2029	6	52	10	2029	Haul	-	-	34.25	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	2029	Haul	10	20	34.25	0.03	2.32	0.32	0.02	0.63	0.04	0.66	0.17	0.04	0.21	2222	0.00	0.35
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	2030	Haul	4	8	34.25	0.01	0.92	0.13	0.01	0.25	0.02	0.27	0.07	0.02	0.08	876	0.00	0.14
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	2033	Haul	2	4	34.25	0.01	0.44	0.06	0.00	0.13	0.01	0.13	0.03	0.01	0.04	421	0.00	0.07
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	2029	Haul	2	4	34.25	0.01	0.46	0.06	0.00	0.13	0.01	0.13	0.03	0.01	0.04	444	0.00	0.07
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	2030	Haul	2	4	34.25	0.01	0.46	0.06	0.00	0.13	0.01	0.13	0.03	0.01	0.04	438	0.00	0.07
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	2030	Haul	-	-	34.25	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	2031	Haul	4	8	34.25	0.01	0.91	0.13	0.01	0.25	0.02	0.27	0.07	0.02	0.08	864	0.00	0.14
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	2032	Haul	8	16	34.25	0.03	1.79	0.25	0.02	0.50	0.03	0.53	0.14	0.03	0.17	1705	0.00	0.27
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Haul	-	-	34.25	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Haul	-	-	34.25	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Haul	2	4	34.25	0.01	0.44	0.06	0.00	0.13	0.01	0.13	0.03	0.01	0.04	416	0.00	0.07
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Haul	-	-	34.25	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Haul	14	28	32.50	0.04	3.00	0.43	0.03	0.83	0.05	0.89	0.22	0.05	0.27	2833	0.00	0.45
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Haul	-	-	32.50	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Haul	-	-	32.50	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Haul	4	8	32.50	0.01	0.86	0.12	0.01	0.24	0.01	0.25	0.06	0.01	0.08	810	0.00	0.13
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Haul	14	28	32.50	0.04	2.93	0.43	0.03	0.84	0.05	0.89	0.23	0.05	0.27	2767	0.00	0.44
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Haul	-	-	32.50	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Haul	-	-	32.50	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	2028	Haul	54	108	32.50	0.17	12.20	1.71	0.11	3.20	0.20	3.40	0.86	0.19	1.05	11569	0.01	1.82
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Haul	8	16	34.25	0.03	1.89	0.26	0.02	0.50	0.03	0.53	0.13	0.03	0.16	1805	0.00	0.28
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Haul	8	16	32.50	0.03	1.81	0.25	0.02	0.47	0.03	0.50	0.13	0.03	0.16	1714	0.00	0.27

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate Speeds; **Fleet Mix:100%** HHDT);
Fuel Type: Diesel
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 5

SOIL/MATERIAL HAUL TRUCKS (OFFSITE)

											Total Emissions (tons)											Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	2029	Haul	4	8	32.50	0.00	0.09	0.01	0.00	0.02	0.00	0.03	0.01	0.00	0.01	80	0.00	0.01	84
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	2030	Haul	-	-	32.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	2030	Haul	88	176	32.50	0.04	3.07	0.44	0.03	0.83	0.05	0.89	0.22	0.05	0.27	2649	0.00	0.42	2773
D Line Wilshire-Westwood Stn_U-Alt5-TBM Pass Through-Maintenance	10/1/2031	11/30/2031	6	52	20	2031	Haul	-	-	32.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	2031	Haul	10	20	32.50	0.01	0.59	0.08	0.01	0.16	0.01	0.17	0.04	0.01	0.05	506	0.00	0.08	530
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	2033	Haul	4	8	32.50	0.00	0.33	0.05	0.00	0.09	0.01	0.10	0.02	0.01	0.03	281	0.00	0.04	294
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	2028	Haul	2	4	32.50	0.00	0.05	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	40	0.00	0.01	42
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	2029	Haul	-	-	32.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	2029	Haul	62	124	32.50	0.04	2.75	0.39	0.02	0.73	0.05	0.78	0.20	0.04	0.24	2368	0.00	0.37	2479
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	2031	Haul	8	16	32.50	0.01	0.36	0.05	0.00	0.10	0.01	0.10	0.03	0.01	0.03	307	0.00	0.05	322
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	2033	Haul	8	16	32.50	0.00	0.31	0.04	0.00	0.09	0.01	0.09	0.02	0.01	0.03	262	0.00	0.04	274
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	2033	Haul	4	8	32.50	0.00	0.33	0.05	0.00	0.09	0.01	0.10	0.02	0.01	0.03	281	0.00	0.04	294
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	2026	Haul	2	4	34.25	0.00	0.05	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	41	0.00	0.01	43
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	2026	Haul	-	-	34.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	2027	Haul	44	88	34.25	0.03	2.22	0.30	0.02	0.57	0.04	0.61	0.15	0.03	0.19	1912	0.00	0.30	2001
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	2028	Haul	-	-	34.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Mobilize/Launch Reach 2 TBM	10/1/2028	1/30/2029	7	122	20	2028	Haul	-	-	34.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Retrieve/Demob Reach 3 TBM	2/19/2032	5/18/2032	7	90	20	2032	Haul	-	-	34.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	2031	Haul	10	20	34.25	0.01	0.70	0.10	0.01	0.19	0.01	0.21	0.05	0.01	0.06	607	0.00	0.10	636
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	2033	Haul	4	8	34.25	0.01	0.34	0.05	0.00	0.10	0.01	0.10	0.03	0.01	0.03	296	0.00	0.05	310
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	2035	Haul	2	4	34.25	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10	0.00	0.00	10
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	2027	Haul	2	4	34.25	0.00	0.05	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	44	0.00	0.01	46
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	2027	Haul	-	-	34.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	2029	Haul	60	120	34.25	0.04	2.87	0.39	0.03	0.77	0.05	0.82	0.21	0.05	0.25	2492	0.00	0.39	2609
Sepulveda-Metro G Line Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2030	10/31/2030	6	52	20	2030	Haul	-	-	34.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	2030	Haul	10	20	34.25	0.01	0.71	0.10	0.01	0.19	0.01	0.21	0.05	0.01	0.06	617	0.00	0.10	646
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	2031	Haul	4	8	34.25	0.01	0.35	0.05	0.00	0.10	0.01	0.10	0.03	0.01	0.03	304	0.00	0.05	318
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	2026	Haul	2	4	34.25	0.00	0.05	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	44	0.00	0.01	46
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	2027	Haul	-	-	34.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	2028	Haul	34	68	34.25	0.02	1.67	0.23	0.02	0.44	0.03	0.47	0.12	0.03	0.15	1447	0.00	0.23	1515
Sherman Way Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2029	10/31/2029	6	52	10	2029	Haul	-	-	34.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	2029	Haul	10	20	34.25	0.01	0.72	0.10	0.01	0.19	0.01	0.21	0.05	0.01	0.06	625	0.00	0.10	654
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	2030	Haul	4	8	34.25	0.01	0.36	0.05	0.00	0.10	0.01	0.10	0.03	0.01	0.03	308	0.00	0.05	322
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	2033	Haul	2	4	34.25	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12	0.00	0.00	13
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	2029	Haul	2	4	34.25	0.00	0.04	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	33	0.00	0.01	34
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	2030	Haul	2	4	34.25	0.00	0.03	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	25	0.00	0.00	26
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	2030	Haul	-	-	34.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	2031	Haul	4	8	34.25	0.00	0.26	0.04	0.00	0.07	0.00	0.08	0.02	0.00	0.02	226	0.00	0.04	237
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	2032	Haul	8	16	34.25	0.00	0.04	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	36	0.00	0.01	38
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Haul	-	-	34.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Haul	-	-	34.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Haul	2	4	34.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	0.00	0.00	1
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Haul	-	-	34.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Haul	14	28	32.50	0.00	0.12	0.02	0.00	0.03	0.00	0.03	0.01	0.00	0.01	99	0.00	0.02	104
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Haul	-	-	32.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Haul	-	-	32.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Haul	4	8	32.50	0.00	0.33	0.05	0.00	0.09	0.01	0.10	0.03	0.01	0.03	287	0.00	0.05	301
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Haul	14	28	32.50	0.00	0.08	0.01	0.00	0.02	0.00	0.02	0.01	0.00	0.01	65	0.00	0.01	68
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Haul	-	-	32.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Haul	-	-	32.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	2028	Haul	54	108	32.50	0.14	9.54	1.33	0.09	2.50	0.16	2.66	0.67	0.15	0.82	8213	0.01	1.29	8599
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Haul	8	16	34.25	0.04	2.81	0.38	0.03	0.74	0.05	0.79	0.20	0.04	0.24	2434	0.00	0.38	2548
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Haul	8	16	32.50	0.03	2.26	0.32	0.02	0.59	0.04	0.63	0.16	0.04	0.20	1947	0.00	0.31	2038

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate Speeds; **Fleet Mix:100%** HHDT);
Fuel Type: Diesel
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
FD = Fugitive Dust
EXH = Exhaust
*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 5

PRECAST HAUL TRUCKS (ONSITE)

											Running Emission Factor (g/mile)[1,2,4]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	2028	Haul	-	-	0.10	0.03	4.68	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2041.8	0.00	0.32
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	2029	Haul	-	-	0.10	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	2029	Haul	-	-	0.10	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	2029	Haul	-	-	0.10	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	2029	Haul	-	-	0.10	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	2030	Haul	16	16	0.10	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	2032	Haul	-	-	0.10	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	4/15/2030	6/11/2032	7	789	20	2030	Haul	-	-	0.10	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	6/12/2032	11/28/2033	7	535	20	2032	Haul	-	-	0.10	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	12/1/2033	7/13/2034	7	225	20	2033	Haul	-	-	0.10	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Haul	-	-	0.10	0.03	4.68	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2041.8	0.00	0.32
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	2029	Haul	16	16	0.10	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	2033	Haul	-	-	0.10	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	3/1/2029	2/14/2033	7	1447	20	2029	Haul	-	-	0.10	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Slabs, Walkways, Plenum	8/23/2032	12/14/2034	7	844	20	2032	Haul	-	-	0.10	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	2034	Haul	-	-	0.10	0.03	4.53	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1854.7	0.00	0.29
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	2027	Haul	-	-	0.10	0.03	4.72	0.35	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2081.8	0.00	0.33
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	2028	Haul	-	-	0.10	0.03	4.68	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2041.8	0.00	0.32
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	2028	Haul	-	-	0.10	0.03	4.68	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2041.8	0.00	0.32
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	2028	Haul	-	-	0.10	0.03	4.68	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2041.8	0.00	0.32
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Haul	-	-	0.10	0.03	4.68	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2041.8	0.00	0.32
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	2029	Haul	16	16	0.10	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	2032	Haul	-	-	0.10	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	4/3/2029	2/19/2032	7	1053	20	2029	Haul	-	-	0.10	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Slabs, Walkways, Plenum	9/23/2031	5/18/2033	7	604	20	2031	Haul	-	-	0.10	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	2033	Haul	-	-	0.10	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	2030	Haul	-	-	0.10	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	2030	Haul	-	-	0.10	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	2030	Haul	-	-	0.10	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	2031	Haul	-	-	0.10	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Haul	-	-	0.10	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	2029	Haul	-	-	0.10	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	2030	Haul	-	-	0.10	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	2030	Haul	2	2	0.10	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	10/29/2030	12/24/2030	6	49	20	2030	Haul	-	-	0.10	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	2030	Haul	2	2	0.10	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	12/20/2031	1/20/2032	6	27	20	2031	Haul	-	-	0.10	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	2032	Haul	-	-	0.10	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Haul	-	-	0.10	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Segment 6-Reach 3 Portal to MSF-Paving	7/19/2032	7/14/2033	6	310	20	2032	Haul	-	-	0.10	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Haul	-	-	0.10	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	2030	Haul	-	-	0.10	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	2030	Haul	-	-	0.10	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	2030	Haul	-	-	0.10	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	2030	Haul	-	-	0.10	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Haul	-	-	0.10	0.03	4.72	0.35	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2081.8	0.00	0.33
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Haul	-	-	0.10	0.03	4.68	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2041.8	0.00	0.32
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	2029	Haul	-	-	0.10	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Metro E Line Stn_U-Alt5-TBM Pass Through-Maintenance	8/1/2030	9/30/2030	6	52	20	2030	Haul	-	-	0.10	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	2030	Haul	-	-	0.10	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	2031	Haul	-	-	0.10	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	2034	Haul	-	-	0.10	0.03	4.53	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1854.7	0.00	0.29
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	2028	Haul	-	-	0.10	0.03	4.68	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2041.8	0.00	0.32
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	2029	Haul	-	-	0.10	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	2029	Haul	-	-	0.10	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Santa Monica Stn_U-Alt5-TBM Pass Through-Maintenance	3/1/2031	4/30/2031	6	52	20	2031	Haul	-	-	0.10	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	2030	Haul	-	-	0.10	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	2032	Haul	-	-	0.10	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30

Sepulveda Transit Corridor Project - ALTERNATIVE 5

PRECAST HAUL TRUCKS (ONSITE)

											Non-Running Emission Factor (g/trip)[1,3]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	2028	Haul	-	-	0.10	0.36	6.75	5.37	0.01	-	0.00	0.00	-	0.00	0.00	781.5	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	2029	Haul	-	-	0.10	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	2029	Haul	-	-	0.10	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	2029	Haul	-	-	0.10	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	2029	Haul	-	-	0.10	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	2030	Haul	16	16	0.10	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	2032	Haul	-	-	0.10	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.6	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	4/15/2030	6/11/2032	7	789	20	2030	Haul	-	-	0.10	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	6/12/2032	11/28/2033	7	535	20	2032	Haul	-	-	0.10	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.6	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	12/1/2033	7/13/2034	7	225	20	2033	Haul	-	-	0.10	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.3	0.02	0.12
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Haul	-	-	0.10	0.36	6.75	5.37	0.01	-	0.00	0.00	-	0.00	0.00	781.5	0.02	0.12
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	2029	Haul	16	16	0.10	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	2033	Haul	-	-	0.10	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.3	0.02	0.12
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	3/1/2029	2/14/2033	7	1447	20	2029	Haul	-	-	0.10	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Slabs, Walkways, Plenum	8/23/2032	12/14/2034	7	844	20	2032	Haul	-	-	0.10	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.6	0.02	0.12
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	2034	Haul	-	-	0.10	0.37	6.35	5.48	0.01	-	0.00	0.00	-	0.00	0.00	734.2	0.02	0.12
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	2027	Haul	-	-	0.10	0.36	6.88	5.37	0.01	-	0.00	0.00	-	0.00	0.00	795.6	0.02	0.13
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	2028	Haul	-	-	0.10	0.36	6.75	5.37	0.01	-	0.00	0.00	-	0.00	0.00	781.5	0.02	0.12
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	2028	Haul	-	-	0.10	0.36	6.75	5.37	0.01	-	0.00	0.00	-	0.00	0.00	781.5	0.02	0.12
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	2028	Haul	-	-	0.10	0.36	6.75	5.37	0.01	-	0.00	0.00	-	0.00	0.00	781.5	0.02	0.12
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Haul	-	-	0.10	0.36	6.75	5.37	0.01	-	0.00	0.00	-	0.00	0.00	781.5	0.02	0.12
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	2029	Haul	16	16	0.10	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	2032	Haul	-	-	0.10	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.6	0.02	0.12
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	4/3/2029	2/19/2032	7	1053	20	2029	Haul	-	-	0.10	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Slabs, Walkways, Plenum	9/23/2031	5/18/2033	7	604	20	2031	Haul	-	-	0.10	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.4	0.02	0.12
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	2033	Haul	-	-	0.10	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.3	0.02	0.12
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	2030	Haul	-	-	0.10	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	2030	Haul	-	-	0.10	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	2030	Haul	-	-	0.10	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	2031	Haul	-	-	0.10	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.4	0.02	0.12
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Haul	-	-	0.10	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.6	0.02	0.12
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	2029	Haul	-	-	0.10	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	2030	Haul	-	-	0.10	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	2030	Haul	2	2	0.10	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	10/29/2030	12/24/2030	6	49	20	2030	Haul	-	-	0.10	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	2030	Haul	2	2	0.10	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	12/20/2031	1/20/2032	6	27	20	2031	Haul	-	-	0.10	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.4	0.02	0.12
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	2032	Haul	-	-	0.10	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.6	0.02	0.12
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Haul	-	-	0.10	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.6	0.02	0.12
Segment 6-Reach 3 Portal to MSF-Paving	7/19/2032	7/14/2033	6	310	20	2032	Haul	-	-	0.10	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.6	0.02	0.12
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Haul	-	-	0.10	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	2030	Haul	-	-	0.10	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	2030	Haul	-	-	0.10	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	2030	Haul	-	-	0.10	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	2030	Haul	-	-	0.10	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Haul	-	-	0.10	0.36	6.88	5.37	0.01	-	0.00	0.00	-	0.00	0.00	795.6	0.02	0.13
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Haul	-	-	0.10	0.36	6.75	5.37	0.01	-	0.00	0.00	-	0.00	0.00	781.5	0.02	0.12
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	2029	Haul	-	-	0.10	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
Metro E Line Stn_U-Alt5-TBM Pass Through-Maintenance	8/1/2030	9/30/2030	6	52	20	2030	Haul	-	-	0.10	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	2030	Haul	-	-	0.10	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	2031	Haul	-	-	0.10	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.4	0.02	0.12
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	2034	Haul	-	-	0.10	0.37	6.35	5.48	0.01	-	0.00	0.00	-	0.00	0.00	734.2	0.02	0.12
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	2028	Haul	-	-	0.10	0.36	6.75	5.37	0.01	-	0.00	0.00	-	0.00	0.00	781.5	0.02	0.12
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	2029	Haul	-	-	0.10	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	2029	Haul	-	-	0.10	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
Santa Monica Stn_U-Alt5-TBM Pass Through-Maintenance	3/1/2031	4/30/2031	6	52	20	2031	Haul	-	-	0.10	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.4	0.02	0.12
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	2030	Haul	-	-	0.10	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	2032	Haul	-	-	0.10	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.6	0.02	0.12

Sepulveda Transit Corridor Project - ALTERNATIVE 5

PRECAST HAUL TRUCKS (ONSITE)

											Daily Emissions (lb/day)												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	2028	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	2029	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	2029	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	2029	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	2029	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	2030	Haul	16	16	0.10	0.01	0.25	0.19	0.00	0.65	0.00	0.65	0.06	0.00	0.06	34	0.00	0.01
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	2032	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	4/15/2030	6/11/2032	7	789	20	2030	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	6/12/2032	11/28/2033	7	535	20	2032	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	12/1/2033	7/13/2034	7	225	20	2033	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	2029	Haul	16	16	0.10	0.01	0.25	0.19	0.00	0.65	0.00	0.65	0.06	0.00	0.06	34	0.00	0.01
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	2033	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	3/1/2029	2/14/2033	7	1447	20	2029	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Slabs, Walkways, Plenum	8/23/2032	12/14/2034	7	844	20	2032	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	2034	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	2027	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	2028	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	2028	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	2028	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	2029	Haul	16	16	0.10	0.01	0.25	0.19	0.00	0.65	0.00	0.65	0.06	0.00	0.06	34	0.00	0.01
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	2032	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	4/3/2029	2/19/2032	7	1053	20	2029	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Slabs, Walkways, Plenum	9/23/2031	5/18/2033	7	604	20	2031	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	2033	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	2030	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	2030	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	2030	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	2031	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	2029	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	2030	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	2030	Haul	2	2	0.10	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4	0.00	0.00
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	10/29/2030	12/24/2030	6	49	20	2030	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	2030	Haul	2	2	0.10	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4	0.00	0.00
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	12/20/2031	1/20/2032	6	27	20	2031	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	2032	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Paving	7/19/2032	7/14/2033	6	310	20	2032	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	2030	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	2030	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	2030	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	2030	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	2029	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-TBM Pass Through-Maintenance	8/1/2030	9/30/2030	6	52	20	2030	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	2030	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	2031	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	2034	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	2028	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	2029	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	2029	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-TBM Pass Through-Maintenance	3/1/2031	4/30/2031	6	52	20	2031	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	2030	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	2032	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 5

PRECAST HAUL TRUCKS (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	Total Emissions (tons) ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	Total Emissions (metric tons) CO_2	CH_4	N_2O	CO_2e
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	2028	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	2029	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	2029	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	2029	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	2029	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	2030	Haul	16	16	0.10	0.01	0.10	0.08	0.00	0.26	0.00	0.26	0.03	0.00	0.03	12.1	0.00	0.00	12.6
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	2032	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	4/15/2030	6/11/2032	7	789	20	2030	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	6/12/2032	11/28/2033	7	535	20	2032	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	12/1/2033	7/13/2034	7	225	20	2033	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	2029	Haul	16	16	0.10	0.01	0.18	0.14	0.00	0.47	0.00	0.47	0.05	0.00	0.05	22.6	0.00	0.00	23.7
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	2033	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	3/1/2029	2/14/2033	7	1447	20	2029	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Slabs, Walkways, Plenum	8/23/2032	12/14/2034	7	844	20	2032	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	2034	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	2027	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	2028	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	2028	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	2028	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	2029	Haul	16	16	0.10	0.01	0.14	0.11	0.00	0.36	0.00	0.36	0.04	0.00	0.04	17.3	0.00	0.00	18.1
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	2032	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	4/3/2029	2/19/2032	7	1053	20	2029	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Slabs, Walkways, Plenum	9/23/2031	5/18/2033	7	604	20	2031	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	2033	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	2030	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	2030	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	2030	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	2031	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	2029	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	2030	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	2030	Haul	2	2	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	10/29/2030	12/24/2030	6	49	20	2030	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	2030	Haul	2	2	0.10	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.6	0.00	0.00	0.6
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	12/20/2031	1/20/2032	6	27	20	2031	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	2032	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Paving	7/19/2032	7/14/2033	6	310	20	2032	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	2030	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	2030	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	2030	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	2030	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	2029	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-TBM Pass Through-Maintenance	8/1/2030	9/30/2030	6	52	20	2030	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	2030	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	2031	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	2034	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	2028	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	2029	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	2029	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-TBM Pass Through-Maintenance	3/1/2031	4/30/2031	6	52	20	2031	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	2030	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	2032	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 5

PRECAST HAUL TRUCKS (ONSITE)

											Running Emission Factor (g/mile)[1,2,4]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	2029	Haul	-	-	0.10	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	2030	Haul	-	-	0.10	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	2030	Haul	-	-	0.10	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
D Line Wilshire-Westwood Stn_U-Alt5-TBM Pass Through-Maintenance	10/1/2031	11/30/2031	6	52	20	2031	Haul	-	-	0.10	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	2031	Haul	-	-	0.10	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	2033	Haul	-	-	0.10	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	2028	Haul	-	-	0.10	0.03	4.68	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2041.8	0.00	0.32
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	2029	Haul	-	-	0.10	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	2029	Haul	-	-	0.10	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	2031	Haul	-	-	0.10	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	2033	Haul	-	-	0.10	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	2033	Haul	-	-	0.10	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	2026	Haul	-	-	0.10	0.03	4.75	0.36	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2123.1	0.00	0.33
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	2026	Haul	-	-	0.10	0.03	4.75	0.36	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2123.1	0.00	0.33
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	2027	Haul	-	-	0.10	0.03	4.72	0.35	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2081.8	0.00	0.33
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	2028	Haul	-	-	0.10	0.03	4.68	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2041.8	0.00	0.32
Ventura Blvd Stn_U-Alt5-Mobilize/Launch Reach 2 TBM	10/1/2028	1/30/2029	7	122	20	2028	Haul	-	-	0.10	0.03	4.68	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2041.8	0.00	0.32
Ventura Blvd Stn_U-Alt5-Retrieve/Demob Reach 3 TBM	2/19/2032	5/18/2032	7	90	20	2032	Haul	-	-	0.10	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	2031	Haul	-	-	0.10	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	2033	Haul	-	-	0.10	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	2035	Haul	-	-	0.10	0.03	4.51	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1831.9	0.00	0.29
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	2027	Haul	-	-	0.10	0.03	4.72	0.35	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2081.8	0.00	0.33
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	2027	Haul	-	-	0.10	0.03	4.72	0.35	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2081.8	0.00	0.33
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	2029	Haul	-	-	0.10	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Sepulveda-Metro G Line Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2030	10/31/2030	6	52	20	2030	Haul	-	-	0.10	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	2030	Haul	-	-	0.10	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	2031	Haul	-	-	0.10	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	2026	Haul	-	-	0.10	0.03	4.75	0.36	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2123.1	0.00	0.33
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	2027	Haul	-	-	0.10	0.03	4.72	0.35	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2081.8	0.00	0.33
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	2028	Haul	-	-	0.10	0.03	4.68	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2041.8	0.00	0.32
Sherman Way Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2029	10/31/2029	6	52	10	2029	Haul	-	-	0.10	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	2029	Haul	-	-	0.10	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	2030	Haul	-	-	0.10	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	2033	Haul	-	-	0.10	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	2029	Haul	-	-	0.10	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	2030	Haul	-	-	0.10	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	2030	Haul	2	2	0.10	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	2031	Haul	-	-	0.10	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	2032	Haul	-	-	0.10	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Haul	-	-	0.10	0.03	4.53	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1854.7	0.00	0.29
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Haul	-	-	0.10	0.03	4.53	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1854.7	0.00	0.29
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Haul	-	-	0.10	0.03	4.53	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1854.7	0.00	0.29
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Haul	-	-	0.10	0.03	4.53	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1854.7	0.00	0.29
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Haul	-	-	0.10	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Haul	-	-	0.10	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Haul	-	-	0.10	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Haul	-	-	0.10	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Haul	-	-	0.10	0.03	4.53	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1854.7	0.00	0.29
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Haul	-	-	0.10	0.03	4.53	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1854.7	0.00	0.29
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Haul	-	-	0.10	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	2028	Haul	-	-	0.10	0.03	4.68	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2041.8	0.00	0.32
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Haul	-	-	0.10	0.03	4.68	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2041.8	0.00	0.32
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Haul	-	-	0.10	0.03	4.68	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2041.8	0.00	0.32

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** 100% HHDT; **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 5

PRECAST HAUL TRUCKS (ONSITE)

											Non-Running Emission Factor (g/trip)[1,3]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	2029	Haul	-	-	0.10	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	2030	Haul	-	-	0.10	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	2030	Haul	-	-	0.10	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
D Line Wilshire-Westwood Stn_U-Alt5-TBM Pass Through-Maintenance	10/1/2031	11/30/2031	6	52	20	2031	Haul	-	-	0.10	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.4	0.02	0.12
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	2031	Haul	-	-	0.10	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.4	0.02	0.12
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	2033	Haul	-	-	0.10	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.3	0.02	0.12
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	2028	Haul	-	-	0.10	0.36	6.75	5.37	0.01	-	0.00	0.00	-	0.00	0.00	781.5	0.02	0.12
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	2029	Haul	-	-	0.10	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	2029	Haul	-	-	0.10	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	2031	Haul	-	-	0.10	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.4	0.02	0.12
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	2033	Haul	-	-	0.10	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.3	0.02	0.12
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	2033	Haul	-	-	0.10	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.3	0.02	0.12
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	2026	Haul	-	-	0.10	0.36	6.99	5.37	0.01	-	0.00	0.00	-	0.00	0.00	810.7	0.02	0.13
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	2026	Haul	-	-	0.10	0.36	6.99	5.37	0.01	-	0.00	0.00	-	0.00	0.00	810.7	0.02	0.13
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	2027	Haul	-	-	0.10	0.36	6.88	5.37	0.01	-	0.00	0.00	-	0.00	0.00	795.6	0.02	0.13
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	2028	Haul	-	-	0.10	0.36	6.75	5.37	0.01	-	0.00	0.00	-	0.00	0.00	781.5	0.02	0.12
Ventura Blvd Stn_U-Alt5-Mobilize/Launch Reach 2 TBM	10/1/2028	1/30/2029	7	122	20	2028	Haul	-	-	0.10	0.36	6.75	5.37	0.01	-	0.00	0.00	-	0.00	0.00	781.5	0.02	0.12
Ventura Blvd Stn_U-Alt5-Retrieve/Demob Reach 3 TBM	2/19/2032	5/18/2032	7	90	20	2032	Haul	-	-	0.10	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.6	0.02	0.12
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	2031	Haul	-	-	0.10	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.4	0.02	0.12
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	2033	Haul	-	-	0.10	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.3	0.02	0.12
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	2035	Haul	-	-	0.10	0.37	6.33	5.50	0.01	-	0.00	0.00	-	0.00	0.00	731.2	0.02	0.12
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	2027	Haul	-	-	0.10	0.36	6.88	5.37	0.01	-	0.00	0.00	-	0.00	0.00	795.6	0.02	0.13
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	2027	Haul	-	-	0.10	0.36	6.88	5.37	0.01	-	0.00	0.00	-	0.00	0.00	795.6	0.02	0.13
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	2029	Haul	-	-	0.10	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
Sepulveda-Metro G Line Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2030	10/31/2030	6	52	20	2030	Haul	-	-	0.10	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	2030	Haul	-	-	0.10	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	2031	Haul	-	-	0.10	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.4	0.02	0.12
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	2026	Haul	-	-	0.10	0.36	6.99	5.37	0.01	-	0.00	0.00	-	0.00	0.00	810.7	0.02	0.13
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	2027	Haul	-	-	0.10	0.36	6.88	5.37	0.01	-	0.00	0.00	-	0.00	0.00	795.6	0.02	0.13
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	2028	Haul	-	-	0.10	0.36	6.75	5.37	0.01	-	0.00	0.00	-	0.00	0.00	781.5	0.02	0.12
Sherman Way Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2029	10/31/2029	6	52	10	2029	Haul	-	-	0.10	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	2029	Haul	-	-	0.10	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	2030	Haul	-	-	0.10	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	2033	Haul	-	-	0.10	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.3	0.02	0.12
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	2029	Haul	-	-	0.10	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	2030	Haul	-	-	0.10	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	2030	Haul	2	2	0.10	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	2031	Haul	-	-	0.10	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.4	0.02	0.12
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	2032	Haul	-	-	0.10	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.6	0.02	0.12
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Haul	-	-	0.10	0.37	6.35	5.48	0.01	-	0.00	0.00	-	0.00	0.00	734.2	0.02	0.12
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Haul	-	-	0.10	0.37	6.35	5.48	0.01	-	0.00	0.00	-	0.00	0.00	734.2	0.02	0.12
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Haul	-	-	0.10	0.37	6.35	5.48	0.01	-	0.00	0.00	-	0.00	0.00	734.2	0.02	0.12
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Haul	-	-	0.10	0.37	6.35	5.48	0.01	-	0.00	0.00	-	0.00	0.00	734.2	0.02	0.12
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Haul	-	-	0.10	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.6	0.02	0.12
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Haul	-	-	0.10	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.6	0.02	0.12
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Haul	-	-	0.10	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.6	0.02	0.12
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Haul	-	-	0.10	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.6	0.02	0.12
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Haul	-	-	0.10	0.37	6.35	5.48	0.01	-	0.00	0.00	-	0.00	0.00	734.2	0.02	0.12
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Haul	-	-	0.10	0.37	6.35	5.48	0.01	-	0.00	0.00	-	0.00	0.00	734.2	0.02	0.12
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Haul	-	-	0.10	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.6	0.02	0.12
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	2028	Haul	-	-	0.10	0.36	6.75	5.37	0.01	-	0.00	0.00	-	0.00	0.00	781.5	0.02	0.12
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Haul	-	-	0.10	0.36	6.75	5.37	0.01	-	0.00	0.00	-	0.00	0.00	781.5	0.02	0.12
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Haul	-	-	0.10	0.36	6.75	5.37	0.01	-	0.00	0.00	-	0.00	0.00	781.5	0.02	0.12

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** 100% HHDT; **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 5

PRECAST HAUL TRUCKS (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	Daily Emissions (lb/day)													
											ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	2029	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	2030	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	2030	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-TBM Pass Through-Maintenance	10/1/2031	11/30/2031	6	52	20	2031	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	2031	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	2033	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	2028	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	2029	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	2029	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	2031	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	2033	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	2033	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	2026	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	2026	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	2027	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	2028	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Mobilize/Launch Reach 2 TBM	10/1/2028	1/30/2029	7	122	20	2028	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Retrieve/Demob Reach 3 TBM	2/19/2032	5/18/2032	7	90	20	2032	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	2031	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	2033	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	2035	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	2027	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	2027	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	2029	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2030	10/31/2030	6	52	20	2030	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	2030	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	2031	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	2026	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	2027	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	2028	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2029	10/31/2029	6	52	10	2029	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	2029	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	2030	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	2033	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	2029	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	2030	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	2030	Haul	2	2	0.10	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4	0.00	0.00
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	2031	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	2032	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	2028	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** 100% HHDT; **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

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Sepulveda Transit Corridor Project - ALTERNATIVE 5

PRECAST HAUL TRUCKS (ONSITE)

											Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	2029	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	2030	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	2030	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-TBM Pass Through-Maintenance	10/1/2031	11/30/2031	6	52	20	2031	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	2031	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	2033	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	2028	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	2029	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	2029	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	2031	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	2033	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	2033	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	2026	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	2026	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	2027	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	2028	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Mobilize/Launch Reach 2 TBM	10/1/2028	1/30/2029	7	122	20	2028	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Retrieve/Demob Reach 3 TBM	2/19/2032	5/18/2032	7	90	20	2032	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	2031	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	2033	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	2035	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	2027	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	2027	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	2029	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2030	10/31/2030	6	52	20	2030	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	2030	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	2031	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	2026	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	2027	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	2028	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2029	10/31/2029	6	52	10	2029	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	2029	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	2030	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	2033	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	2029	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	2030	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	2030	Haul	2	2	0.10	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.5	0.00	0.00	0.5
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	2031	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	2032	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	2028	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Haul	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** 100% HHDT; **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 5

PRECAST HAUL TRUCKS (OFFSITE)

											Running Emission Factor (g/mile)[1,2]													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	2028	Haul	-	-	16.00	0.01	1.37	0.06	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1471.1	0.00	0.23
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	2029	Haul	-	-	16.00	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	2029	Haul	-	-	16.00	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	2029	Haul	-	-	16.00	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	2029	Haul	-	-	16.00	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	2030	Haul	16	32	16.00	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	2032	Haul	-	-	16.00	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	4/15/2030	6/11/2032	7	789	20	2030	Haul	-	-	16.00	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	6/12/2032	11/28/2033	7	535	20	2032	Haul	-	-	16.00	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	12/1/2033	7/13/2034	7	225	20	2033	Haul	-	-	16.00	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Haul	-	-	6.00	0.01	1.37	0.06	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1471.1	0.00	0.23
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	2029	Haul	16	32	6.00	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	2033	Haul	-	-	6.00	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	3/1/2029	2/14/2033	7	1447	20	2029	Haul	-	-	6.00	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Slabs, Walkways, Plenum	8/23/2032	12/14/2034	7	844	20	2032	Haul	-	-	6.00	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	2034	Haul	-	-	6.00	0.01	1.27	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1356.7	0.00	0.21
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	2027	Haul	-	-	2.00	0.01	1.39	0.06	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1494.1	0.00	0.24
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	2028	Haul	-	-	2.00	0.01	1.37	0.06	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1471.1	0.00	0.23
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	2028	Haul	-	-	2.00	0.01	1.37	0.06	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1471.1	0.00	0.23
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	2028	Haul	-	-	2.00	0.01	1.37	0.06	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1471.1	0.00	0.23
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Haul	-	-	2.00	0.01	1.37	0.06	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1471.1	0.00	0.23
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	2029	Haul	16	32	2.00	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	2032	Haul	-	-	2.00	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	4/3/2029	2/19/2032	7	1053	20	2029	Haul	-	-	2.00	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Slabs, Walkways, Plenum	9/23/2031	5/18/2033	7	604	20	2031	Haul	-	-	2.00	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	2033	Haul	-	-	2.00	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	2030	Haul	-	-	2.00	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	2030	Haul	-	-	2.00	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	2030	Haul	-	-	2.00	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	2031	Haul	-	-	2.00	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Haul	-	-	2.00	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	2029	Haul	-	-	2.00	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	2030	Haul	-	-	2.00	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	2030	Haul	2	4	2.00	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	10/29/2030	12/24/2030	6	49	20	2030	Haul	-	-	2.00	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	2030	Haul	2	4	2.00	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	12/20/2031	1/20/2032	6	27	20	2031	Haul	-	-	2.00	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	2032	Haul	-	-	2.00	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Haul	-	-	2.00	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Segment 6-Reach 3 Portal to MSF-Paving	7/19/2032	7/14/2033	6	310	20	2032	Haul	-	-	2.00	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Haul	-	-	16.00	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	2030	Haul	-	-	16.00	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	2030	Haul	-	-	16.00	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	2030	Haul	-	-	16.00	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	2030	Haul	-	-	16.00	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Haul	-	-	16.00	0.01	1.39	0.06	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1494.1	0.00	0.24
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Haul	-	-	16.00	0.01	1.37	0.06	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1471.1	0.00	0.23
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	2029	Haul	-	-	16.00	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Metro E Line Stn_U-Alt5-TBM Pass Through-Maintenance	8/1/2030	9/30/2030	6	52	20	2030	Haul	-	-	16.00	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	2030	Haul	-	-	16.00	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	2031	Haul	-	-	16.00	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	2034	Haul	-	-	16.00	0.01	1.27	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1356.7	0.00	0.21
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	2028	Haul	-	-	16.00	0.01	1.37	0.06	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1471.1	0.00	0.23
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	2029	Haul	-	-	16.00	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	2029	Haul	-	-	16.00	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Santa Monica Stn_U-Alt5-TBM Pass Through-Maintenance	3/1/2031	4/30/2031	6	52	20	2031	Haul	-	-	16.00	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	2030	Haul	-	-	16.00	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	2032	Haul	-	-	16.00	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22

Sepulveda Transit Corridor Project - ALTERNATIVE 5

PRECAST HAUL TRUCKS (OFFSITE)

											Non-Running Emission Factor (g/trip)[1,3]													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	2028	Haul	-	-	16.00	0.36	6.75	5.37	0.01	-	0.00	0.00	-	0.00	0.00	781.5	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	2029	Haul	-	-	16.00	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	2029	Haul	-	-	16.00	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	2029	Haul	-	-	16.00	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	2029	Haul	-	-	16.00	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	2030	Haul	16	32	16.00	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	2032	Haul	-	-	16.00	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.6	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	4/15/2030	6/11/2032	7	789	20	2030	Haul	-	-	16.00	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	6/12/2032	11/28/2033	7	535	20	2032	Haul	-	-	16.00	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.6	0.02	0.12
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	12/1/2033	7/13/2034	7	225	20	2033	Haul	-	-	16.00	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.3	0.02	0.12
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Haul	-	-	6.00	0.36	6.75	5.37	0.01	-	0.00	0.00	-	0.00	0.00	781.5	0.02	0.12
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	2029	Haul	16	32	6.00	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	2033	Haul	-	-	6.00	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.3	0.02	0.12
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	3/1/2029	2/14/2033	7	1447	20	2029	Haul	-	-	6.00	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Slabs, Walkways, Plenum	8/23/2032	12/14/2034	7	844	20	2032	Haul	-	-	6.00	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.6	0.02	0.12
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	2034	Haul	-	-	6.00	0.37	6.35	5.48	0.01	-	0.00	0.00	-	0.00	0.00	734.2	0.02	0.12
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	2027	Haul	-	-	2.00	0.36	6.88	5.37	0.01	-	0.00	0.00	-	0.00	0.00	795.6	0.02	0.13
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	2028	Haul	-	-	2.00	0.36	6.75	5.37	0.01	-	0.00	0.00	-	0.00	0.00	781.5	0.02	0.12
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	2028	Haul	-	-	2.00	0.36	6.75	5.37	0.01	-	0.00	0.00	-	0.00	0.00	781.5	0.02	0.12
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	2028	Haul	-	-	2.00	0.36	6.75	5.37	0.01	-	0.00	0.00	-	0.00	0.00	781.5	0.02	0.12
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Haul	-	-	2.00	0.36	6.75	5.37	0.01	-	0.00	0.00	-	0.00	0.00	781.5	0.02	0.12
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	2029	Haul	16	32	2.00	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	2032	Haul	-	-	2.00	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.6	0.02	0.12
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	4/3/2029	2/19/2032	7	1053	20	2029	Haul	-	-	2.00	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Slabs, Walkways, Plenum	9/23/2031	5/18/2033	7	604	20	2031	Haul	-	-	2.00	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.4	0.02	0.12
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	2033	Haul	-	-	2.00	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.3	0.02	0.12
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	2030	Haul	-	-	2.00	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	2030	Haul	-	-	2.00	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	2030	Haul	-	-	2.00	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	2031	Haul	-	-	2.00	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.4	0.02	0.12
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Haul	-	-	2.00	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.6	0.02	0.12
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	2029	Haul	-	-	2.00	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	2030	Haul	-	-	2.00	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	2030	Haul	2	4	2.00	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	10/29/2030	12/24/2030	6	49	20	2030	Haul	-	-	2.00	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	2030	Haul	2	4	2.00	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	12/20/2031	1/20/2032	6	27	20	2031	Haul	-	-	2.00	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.4	0.02	0.12
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	2032	Haul	-	-	2.00	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.6	0.02	0.12
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Haul	-	-	2.00	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.6	0.02	0.12
Segment 6-Reach 3 Portal to MSF-Paving	7/19/2032	7/14/2033	6	310	20	2032	Haul	-	-	2.00	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.6	0.02	0.12
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Haul	-	-	16.00	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	2030	Haul	-	-	16.00	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	2030	Haul	-	-	16.00	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	2030	Haul	-	-	16.00	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	2030	Haul	-	-	16.00	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Haul	-	-	16.00	0.36	6.88	5.37	0.01	-	0.00	0.00	-	0.00	0.00	795.6	0.02	0.13
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Haul	-	-	16.00	0.36	6.75	5.37	0.01	-	0.00	0.00	-	0.00	0.00	781.5	0.02	0.12
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	2029	Haul	-	-	16.00	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
Metro E Line Stn_U-Alt5-TBM Pass Through-Maintenance	8/1/2030	9/30/2030	6	52	20	2030	Haul	-	-	16.00	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	2030	Haul	-	-	16.00	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	2031	Haul	-	-	16.00	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.4	0.02	0.12
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	2034	Haul	-	-	16.00	0.37	6.35	5.48	0.01	-	0.00	0.00	-	0.00	0.00	734.2	0.02	0.12
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	2028	Haul	-	-	16.00	0.36	6.75	5.37	0.01	-	0.00	0.00	-	0.00	0.00	781.5	0.02	0.12
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	2029	Haul	-	-	16.00	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	2029	Haul	-	-	16.00	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
Santa Monica Stn_U-Alt5-TBM Pass Through-Maintenance	3/1/2031	4/30/2031	6	52	20	2031	Haul	-	-	16.00	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.4	0.02	0.12
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	2030	Haul	-	-	16.00	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	2032	Haul	-	-	16.00	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.6	0.02	0.12

Sepulveda Transit Corridor Project - ALTERNATIVE 5

PRECAST HAUL TRUCKS (OFFSITE)

											Daily Emissions (lb/day)												
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Hours per Workday**	**EF Year**	**Trip Type**	**Round Trips per Day**	**Total One-Way Trips per Day**	**One-Way Trip Length (mi)**	**ROG**	**NO_x**	**CO**	**SO_x**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**	**CO_2**	**CH_4**	**N_2O**
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	2028	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	2029	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	2029	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	2029	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	2029	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	2030	Haul	16	32	16.00	0.04	1.96	0.44	0.02	0.47	0.03	0.50	0.13	0.03	0.15	1666	0.00	0.26
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	2032	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	4/15/2030	6/11/2032	7	789	20	2030	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	6/12/2032	11/28/2033	7	535	20	2032	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	12/1/2033	7/13/2034	7	225	20	2033	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Haul	-	-	6.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	2029	Haul	16	32	6.00	0.03	1.04	0.40	0.01	0.18	0.01	0.19	0.05	0.01	0.06	668	0.00	0.11
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	2033	Haul	-	-	6.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	3/1/2029	2/14/2033	7	1447	20	2029	Haul	-	-	6.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Slabs, Walkways, Plenum	8/23/2032	12/14/2034	7	844	20	2032	Haul	-	-	6.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	2034	Haul	-	-	6.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	2027	Haul	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	2028	Haul	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	2028	Haul	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	2028	Haul	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Haul	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	2029	Haul	16	32	2.00	0.03	0.66	0.39	0.00	0.06	0.00	0.06	0.02	0.00	0.02	259	0.00	0.04
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	2032	Haul	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	4/3/2029	2/19/2032	7	1053	20	2029	Haul	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Slabs, Walkways, Plenum	9/23/2031	5/18/2033	7	604	20	2031	Haul	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	2033	Haul	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	2030	Haul	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	2030	Haul	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	2030	Haul	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	2031	Haul	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Haul	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	2029	Haul	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	2030	Haul	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	2030	Haul	2	4	2.00	0.00	0.08	0.05	0.00	0.01	0.00	0.01	0.00	0.00	0.00	32	0.00	0.01
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	10/29/2030	12/24/2030	6	49	20	2030	Haul	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	2030	Haul	2	4	2.00	0.00	0.08	0.05	0.00	0.01	0.00	0.01	0.00	0.00	0.00	32	0.00	0.01
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	12/20/2031	1/20/2032	6	27	20	2031	Haul	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	2032	Haul	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Haul	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Paving	7/19/2032	7/14/2033	6	310	20	2032	Haul	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	2030	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	2030	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	2030	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	2030	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	2029	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-TBM Pass Through-Maintenance	8/1/2030	9/30/2030	6	52	20	2030	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	2030	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	2031	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	2034	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	2028	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	2029	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	2029	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-TBM Pass Through-Maintenance	3/1/2031	4/30/2031	6	52	20	2031	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	2030	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	2032	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 5

PRECAST HAUL TRUCKS (OFFSITE)

											Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	2028	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	2029	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	2029	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	2029	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	2029	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	2030	Haul	16	32	16.00	0.02	0.77	0.17	0.01	0.18	0.01	0.20	0.05	0.01	0.06	595.4	0.00	0.09	623.3
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	2032	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	4/15/2030	6/11/2032	7	789	20	2030	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	6/12/2032	11/28/2033	7	535	20	2032	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	12/1/2033	7/13/2034	7	225	20	2033	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Haul	-	-	6.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	2029	Haul	16	32	6.00	0.02	0.76	0.29	0.00	0.13	0.01	0.14	0.03	0.01	0.04	441.8	0.00	0.07	462.6
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	2033	Haul	-	-	6.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	3/1/2029	2/14/2033	7	1447	20	2029	Haul	-	-	6.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Slabs, Walkways, Plenum	8/23/2032	12/14/2034	7	844	20	2032	Haul	-	-	6.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	2034	Haul	-	-	6.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	2027	Haul	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	2028	Haul	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	2028	Haul	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	2028	Haul	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Haul	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	2029	Haul	16	32	2.00	0.02	0.37	0.22	0.00	0.03	0.00	0.03	0.01	0.00	0.01	130.7	0.00	0.02	136.9
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	2032	Haul	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	4/3/2029	2/19/2032	7	1053	20	2029	Haul	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Slabs, Walkways, Plenum	9/23/2031	5/18/2033	7	604	20	2031	Haul	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	2033	Haul	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	2030	Haul	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	2030	Haul	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	2030	Haul	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	2031	Haul	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Haul	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	2029	Haul	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	2030	Haul	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	2030	Haul	2	4	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.1	0.00	0.00	1.1
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	10/29/2030	12/24/2030	6	49	20	2030	Haul	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	2030	Haul	2	4	2.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.5	0.00	0.00	4.7
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	12/20/2031	1/20/2032	6	27	20	2031	Haul	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	2032	Haul	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Haul	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Paving	7/19/2032	7/14/2033	6	310	20	2032	Haul	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	2030	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	2030	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	2030	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	2030	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	2029	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-TBM Pass Through-Maintenance	8/1/2030	9/30/2030	6	52	20	2030	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	2030	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	2031	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	2034	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	2028	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	2029	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	2029	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-TBM Pass Through-Maintenance	3/1/2031	4/30/2031	6	52	20	2031	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	2030	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	2032	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 5

PRECAST HAUL TRUCKS (OFFSITE)

											Running Emission Factor (g/mile)[1,2]													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	2029	Haul	-	-	16.00	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	2030	Haul	-	-	16.00	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	2030	Haul	-	-	16.00	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
D Line Wilshire-Westwood Stn_U-Alt5-TBM Pass Through-Maintenance	10/1/2031	11/30/2031	6	52	20	2031	Haul	-	-	16.00	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	2031	Haul	-	-	16.00	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	2033	Haul	-	-	16.00	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	2028	Haul	-	-	16.00	0.01	1.37	0.06	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1471.1	0.00	0.23
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	2029	Haul	-	-	16.00	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	2029	Haul	-	-	16.00	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	2031	Haul	-	-	16.00	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	2033	Haul	-	-	16.00	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	2033	Haul	-	-	16.00	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	2026	Haul	-	-	6.00	0.01	1.43	0.06	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1516.1	0.00	0.24
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	2026	Haul	-	-	6.00	0.01	1.43	0.06	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1516.1	0.00	0.24
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	2027	Haul	-	-	6.00	0.01	1.39	0.06	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1494.1	0.00	0.24
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	2028	Haul	-	-	6.00	0.01	1.37	0.06	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1471.1	0.00	0.23
Ventura Blvd Stn_U-Alt5-Mobilize/Launch Reach 2 TBM	10/1/2028	1/30/2029	7	122	20	2028	Haul	-	-	6.00	0.01	1.37	0.06	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1471.1	0.00	0.23
Ventura Blvd Stn_U-Alt5-Retrieve/Demob Reach 3 TBM	2/19/2032	5/18/2032	7	90	20	2032	Haul	-	-	6.00	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	2031	Haul	-	-	6.00	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	2033	Haul	-	-	6.00	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	2035	Haul	-	-	6.00	0.01	1.25	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1342.3	0.00	0.21
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	2027	Haul	-	-	6.00	0.01	1.39	0.06	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1494.1	0.00	0.24
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	2027	Haul	-	-	6.00	0.01	1.39	0.06	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1494.1	0.00	0.24
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	2029	Haul	-	-	6.00	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Sepulveda-Metro G Line Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2030	10/31/2030	6	52	20	2030	Haul	-	-	6.00	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	2030	Haul	-	-	6.00	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	2031	Haul	-	-	6.00	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	2026	Haul	-	-	2.00	0.01	1.43	0.06	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1516.1	0.00	0.24
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	2027	Haul	-	-	2.00	0.01	1.39	0.06	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1494.1	0.00	0.24
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	2028	Haul	-	-	2.00	0.01	1.37	0.06	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1471.1	0.00	0.23
Sherman Way Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2029	10/31/2029	6	52	10	2029	Haul	-	-	2.00	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	2029	Haul	-	-	2.00	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	2030	Haul	-	-	2.00	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	2033	Haul	-	-	2.00	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	2029	Haul	-	-	6.00	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	2030	Haul	-	-	6.00	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	2030	Haul	2	4	6.00	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	2031	Haul	-	-	6.00	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	2032	Haul	-	-	6.00	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Haul	-	-	6.00	0.01	1.27	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1356.7	0.00	0.21
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Haul	-	-	6.00	0.01	1.27	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1356.7	0.00	0.21
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Haul	-	-	6.00	0.01	1.27	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1356.7	0.00	0.21
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Haul	-	-	6.00	0.01	1.27	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1356.7	0.00	0.21
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Haul	-	-	16.00	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Haul	-	-	16.00	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Haul	-	-	16.00	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Haul	-	-	16.00	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Haul	-	-	16.00	0.01	1.27	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1356.7	0.00	0.21
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Haul	-	-	16.00	0.01	1.27	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1356.7	0.00	0.21
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Haul	-	-	16.00	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	2028	Haul	-	-	16.00	0.01	1.37	0.06	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1471.1	0.00	0.23
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Haul	-	-	16.00	0.01	1.37	0.06	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1471.1	0.00	0.23
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Haul	-	-	16.00	0.01	1.37	0.06	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1471.1	0.00	0.23

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate Speeds; **Fleet Mix:100%** HHDT);
Fuel Type: Diesel
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 5

PRECAST HAUL TRUCKS (OFFSITE)

											Non-Running Emission Factor (g/trip)[1,3]													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	2029	Haul	-	-	16.00	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	2030	Haul	-	-	16.00	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	2030	Haul	-	-	16.00	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
D Line Wilshire-Westwood Stn_U-Alt5-TBM Pass Through-Maintenance	10/1/2031	11/30/2031	6	52	20	2031	Haul	-	-	16.00	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.4	0.02	0.12
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	2031	Haul	-	-	16.00	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.4	0.02	0.12
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	2033	Haul	-	-	16.00	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.3	0.02	0.12
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	2028	Haul	-	-	16.00	0.36	6.75	5.37	0.01	-	0.00	0.00	-	0.00	0.00	781.5	0.02	0.12
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	2029	Haul	-	-	16.00	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	2029	Haul	-	-	16.00	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	2031	Haul	-	-	16.00	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.4	0.02	0.12
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	2033	Haul	-	-	16.00	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.3	0.02	0.12
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	2033	Haul	-	-	16.00	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.3	0.02	0.12
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	2026	Haul	-	-	6.00	0.36	6.99	5.37	0.01	-	0.00	0.00	-	0.00	0.00	810.7	0.02	0.13
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	2026	Haul	-	-	6.00	0.36	6.99	5.37	0.01	-	0.00	0.00	-	0.00	0.00	810.7	0.02	0.13
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	2027	Haul	-	-	6.00	0.36	6.88	5.37	0.01	-	0.00	0.00	-	0.00	0.00	795.6	0.02	0.13
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	2028	Haul	-	-	6.00	0.36	6.75	5.37	0.01	-	0.00	0.00	-	0.00	0.00	781.5	0.02	0.12
Ventura Blvd Stn_U-Alt5-Mobilize/Launch Reach 2 TBM	10/1/2028	1/30/2029	7	122	20	2028	Haul	-	-	6.00	0.36	6.75	5.37	0.01	-	0.00	0.00	-	0.00	0.00	781.5	0.02	0.12
Ventura Blvd Stn_U-Alt5-Retrieve/Demob Reach 3 TBM	2/19/2032	5/18/2032	7	90	20	2032	Haul	-	-	6.00	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.6	0.02	0.12
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	2031	Haul	-	-	6.00	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.4	0.02	0.12
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	2033	Haul	-	-	6.00	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.3	0.02	0.12
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	2035	Haul	-	-	6.00	0.37	6.33	5.50	0.01	-	0.00	0.00	-	0.00	0.00	731.2	0.02	0.12
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	2027	Haul	-	-	6.00	0.36	6.88	5.37	0.01	-	0.00	0.00	-	0.00	0.00	795.6	0.02	0.13
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	2027	Haul	-	-	6.00	0.36	6.88	5.37	0.01	-	0.00	0.00	-	0.00	0.00	795.6	0.02	0.13
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	2029	Haul	-	-	6.00	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
Sepulveda-Metro G Line Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2030	10/31/2030	6	52	20	2030	Haul	-	-	6.00	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	2030	Haul	-	-	6.00	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	2031	Haul	-	-	6.00	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.4	0.02	0.12
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	2026	Haul	-	-	2.00	0.36	6.99	5.37	0.01	-	0.00	0.00	-	0.00	0.00	810.7	0.02	0.13
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	2027	Haul	-	-	2.00	0.36	6.88	5.37	0.01	-	0.00	0.00	-	0.00	0.00	795.6	0.02	0.13
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	2028	Haul	-	-	2.00	0.36	6.75	5.37	0.01	-	0.00	0.00	-	0.00	0.00	781.5	0.02	0.12
Sherman Way Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2029	10/31/2029	6	52	10	2029	Haul	-	-	2.00	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	2029	Haul	-	-	2.00	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	2030	Haul	-	-	2.00	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	2033	Haul	-	-	2.00	0.37	6.38	5.45	0.01	-	0.00	0.00	-	0.00	0.00	738.3	0.02	0.12
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	2029	Haul	-	-	6.00	0.36	6.62	5.38	0.01	-	0.00	0.00	-	0.00	0.00	769.2	0.02	0.12
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	2030	Haul	-	-	6.00	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	2030	Haul	2	4	6.00	0.36	6.53	5.39	0.01	-	0.00	0.00	-	0.00	0.00	758.7	0.02	0.12
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	2031	Haul	-	-	6.00	0.37	6.46	5.41	0.01	-	0.00	0.00	-	0.00	0.00	750.4	0.02	0.12
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	2032	Haul	-	-	6.00	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.6	0.02	0.12
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Haul	-	-	6.00	0.37	6.35	5.48	0.01	-	0.00	0.00	-	0.00	0.00	734.2	0.02	0.12
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Haul	-	-	6.00	0.37	6.35	5.48	0.01	-	0.00	0.00	-	0.00	0.00	734.2	0.02	0.12
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Haul	-	-	6.00	0.37	6.35	5.48	0.01	-	0.00	0.00	-	0.00	0.00	734.2	0.02	0.12
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Haul	-	-	6.00	0.37	6.35	5.48	0.01	-	0.00	0.00	-	0.00	0.00	734.2	0.02	0.12
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Haul	-	-	16.00	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.6	0.02	0.12
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Haul	-	-	16.00	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.6	0.02	0.12
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Haul	-	-	16.00	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.6	0.02	0.12
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Haul	-	-	16.00	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.6	0.02	0.12
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Haul	-	-	16.00	0.37	6.35	5.48	0.01	-	0.00	0.00	-	0.00	0.00	734.2	0.02	0.12
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Haul	-	-	16.00	0.37	6.35	5.48	0.01	-	0.00	0.00	-	0.00	0.00	734.2	0.02	0.12
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Haul	-	-	16.00	0.37	6.42	5.43	0.01	-	0.00	0.00	-	0.00	0.00	743.6	0.02	0.12
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	2028	Haul	-	-	16.00	0.36	6.75	5.37	0.01	-	0.00	0.00	-	0.00	0.00	781.5	0.02	0.12
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Haul	-	-	16.00	0.36	6.75	5.37	0.01	-	0.00	0.00	-	0.00	0.00	781.5	0.02	0.12
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Haul	-	-	16.00	0.36	6.75	5.37	0.01	-	0.00	0.00	-	0.00	0.00	781.5	0.02	0.12

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate Speeds; **Fleet Mix:100%** HHDT);
Fuel Type: Diesel
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 5

PRECAST HAUL TRUCKS (OFFSITE)

											Daily Emissions (lb/day)												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	2029	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	2030	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	2030	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-TBM Pass Through-Maintenance	10/1/2031	11/30/2031	6	52	20	2031	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	2031	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	2033	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	2028	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	2029	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	2029	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	2031	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	2033	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	2033	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	2026	Haul	-	-	6.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	2026	Haul	-	-	6.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	2027	Haul	-	-	6.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	2028	Haul	-	-	6.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Mobilize/Launch Reach 2 TBM	10/1/2028	1/30/2029	7	122	20	2028	Haul	-	-	6.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Retrieve/Demob Reach 3 TBM	2/19/2032	5/18/2032	7	90	20	2032	Haul	-	-	6.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	2031	Haul	-	-	6.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	2033	Haul	-	-	6.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	2035	Haul	-	-	6.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	2027	Haul	-	-	6.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	2027	Haul	-	-	6.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	2029	Haul	-	-	6.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2030	10/31/2030	6	52	20	2030	Haul	-	-	6.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	2030	Haul	-	-	6.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	2031	Haul	-	-	6.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	2026	Haul	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	2027	Haul	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	2028	Haul	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2029	10/31/2029	6	52	10	2029	Haul	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	2029	Haul	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	2030	Haul	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	2033	Haul	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	2029	Haul	-	-	6.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	2030	Haul	-	-	6.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	2030	Haul	2	4	6.00	0.00	0.13	0.05	0.00	0.02	0.00	0.02	0.01	0.00	0.01	82	0.00	0.01
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	2031	Haul	-	-	6.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	2032	Haul	-	-	6.00	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Haul	-	-	6.00	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Haul	-	-	6.00	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Haul	-	-	6.00	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Haul	-	-	6.00	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	2028	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate Speeds; **Fleet Mix:100%** HHDT); **Fuel Type:** Diesel
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 5

PRECAST HAUL TRUCKS (OFFSITE)

											Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	2029	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	2030	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	2030	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-TBM Pass Through-Maintenance	10/1/2031	11/30/2031	6	52	20	2031	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	2031	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	2033	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	2028	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	2029	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	2029	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	2031	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	2033	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	2033	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	2026	Haul	-	-	6.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	2026	Haul	-	-	6.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	2027	Haul	-	-	6.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	2028	Haul	-	-	6.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Mobilize/Launch Reach 2 TBM	10/1/2028	1/30/2029	7	122	20	2028	Haul	-	-	6.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Retrieve/Demob Reach 3 TBM	2/19/2032	5/18/2032	7	90	20	2032	Haul	-	-	6.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	2031	Haul	-	-	6.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	2033	Haul	-	-	6.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	2035	Haul	-	-	6.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	2027	Haul	-	-	6.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	2027	Haul	-	-	6.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	2029	Haul	-	-	6.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2030	10/31/2030	6	52	20	2030	Haul	-	-	6.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	2030	Haul	-	-	6.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	2031	Haul	-	-	6.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	2026	Haul	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	2027	Haul	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	2028	Haul	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2029	10/31/2029	6	52	10	2029	Haul	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	2029	Haul	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	2030	Haul	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	2033	Haul	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	2029	Haul	-	-	6.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	2030	Haul	-	-	6.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	2030	Haul	2	4	6.00	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.0	0.00	0.00	9.5
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	2031	Haul	-	-	6.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	2032	Haul	-	-	6.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Haul	-	-	6.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Haul	-	-	6.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Haul	-	-	6.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Haul	-	-	6.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	2028	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Haul	-	-	16.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate Speeds; **Fleet Mix:100%** HHDT); **Fuel Type:** Diesel
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

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Sepulveda Transit Corridor Project - ALTERNATIVE 5

VENDOR TRUCKS (ONSITE)

										Running Emission Factor (g/mile)[1,2,4]													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Onsite Trips	Onsite Trip Length (miles)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	2028	Concrete	-	-	0.10	0.02	2.97	0.24	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1781.8	0.00	0.28
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	2029	Concrete	2	2	0.10	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	2029	Concrete	-	-	0.10	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	2029	Concrete	24	24	0.10	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	2029	Concrete	-	-	0.10	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	2030	Concrete	-	-	0.10	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	2032	Concrete	-	-	0.10	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	4/15/2030	6/11/2032	7	789	20	2030	Concrete	18	18	0.10	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	6/12/2032	11/28/2033	7	535	20	2032	Concrete	20	20	0.10	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	12/1/2033	7/13/2034	7	225	20	2033	Concrete	-	-	0.10	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Concrete	-	-	0.10	0.02	2.97	0.24	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1781.8	0.00	0.28
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	2029	Concrete	-	-	0.10	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	2033	Concrete	-	-	0.10	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	3/1/2029	2/14/2033	7	1447	20	2029	Concrete	20	20	0.10	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Slabs, Walkways, Plenum	8/23/2032	12/14/2034	7	844	20	2032	Concrete	24	24	0.10	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	2034	Concrete	-	-	0.10	0.02	2.78	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1655.8	0.00	0.26
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	2027	Concrete	-	-	0.10	0.02	3.01	0.24	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1807.4	0.00	0.28
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	2028	Concrete	2	2	0.10	0.02	2.97	0.24	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1781.8	0.00	0.28
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	2028	Concrete	-	-	0.10	0.02	2.97	0.24	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1781.8	0.00	0.28
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	2028	Concrete	36	36	0.10	0.02	2.97	0.24	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1781.8	0.00	0.28
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Concrete	-	-	0.10	0.02	2.97	0.24	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1781.8	0.00	0.28
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	2029	Concrete	-	-	0.10	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	2032	Concrete	-	-	0.10	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	4/3/2029	2/19/2032	7	1053	20	2029	Concrete	20	20	0.10	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Slabs, Walkways, Plenum	9/23/2031	5/18/2033	7	604	20	2031	Concrete	26	26	0.10	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	2033	Concrete	-	-	0.10	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	2030	Concrete	-	-	0.10	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	2030	Concrete	-	-	0.10	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	2030	Concrete	-	-	0.10	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	2031	Concrete	4	4	0.10	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Concrete	-	-	0.10	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	2029	Concrete	4	4	0.10	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	2030	Concrete	2	2	0.10	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	2030	Concrete	-	-	0.10	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	10/29/2030	12/24/2030	6	49	20	2030	Concrete	-	-	0.10	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	2030	Concrete	-	-	0.10	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	12/20/2031	1/20/2032	6	27	20	2031	Concrete	-	-	0.10	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	2032	Concrete	-	-	0.10	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Concrete	-	-	0.10	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Segment 6-Reach 3 Portal to MSF-Paving	7/19/2032	7/14/2033	6	310	20	2032	Concrete	-	-	0.10	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Concrete	-	-	0.10	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	2030	Concrete	4	4	0.10	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	2030	Concrete	-	-	0.10	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	2030	Concrete	28	28	0.10	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	2030	Concrete	-	-	0.10	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Concrete	-	-	0.10	0.02	3.01	0.24	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1807.4	0.00	0.28
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Concrete	2	2	0.10	0.02	2.97	0.24	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1781.8	0.00	0.28
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	2029	Concrete	-	-	0.10	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Metro E Line Stn_U-Alt5-TBM Pass Through-Maintenance	8/1/2030	9/30/2030	6	52	20	2030	Concrete	-	-	0.10	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	2030	Concrete	8	8	0.10	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	2031	Concrete	-	-	0.10	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	2034	Concrete	-	-	0.10	0.02	2.78	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1655.8	0.00	0.26
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	2028	Concrete	-	-	0.10	0.02	2.97	0.24	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1781.8	0.00	0.28
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	2029	Concrete	2	2	0.10	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	2029	Concrete	-	-	0.10	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Santa Monica Stn_U-Alt5-TBM Pass Through-Maintenance	3/1/2031	4/30/2031	6	52	20	2031	Concrete	-	-	0.10	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	2030	Concrete	8	8	0.10	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	2032	Concrete	-	-	0.10	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27

Sepulveda Transit Corridor Project - ALTERNATIVE 5

VENDOR TRUCKS (ONSITE)

											Non-Running Emission Factor (g/trip)[1,3]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Onsite Trips	Onsite Trip Length (miles)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	2028	Concrete	-	-	0.10	0.19	4.54	2.98	0.00	-	0.00	0.00	-	0.00	0.00	475.0	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	2029	Concrete	2	2	0.10	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	2029	Concrete	-	-	0.10	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	2029	Concrete	24	24	0.10	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	2029	Concrete	-	-	0.10	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	2030	Concrete	-	-	0.10	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	2032	Concrete	-	-	0.10	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.6	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	4/15/2030	6/11/2032	7	789	20	2030	Concrete	18	18	0.10	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	6/12/2032	11/28/2033	7	535	20	2032	Concrete	20	20	0.10	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.6	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	12/1/2033	7/13/2034	7	225	20	2033	Concrete	-	-	0.10	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.3	0.01	0.07
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Concrete	-	-	0.10	0.19	4.54	2.98	0.00	-	0.00	0.00	-	0.00	0.00	475.0	0.01	0.07
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	2029	Concrete	-	-	0.10	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	2033	Concrete	-	-	0.10	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.3	0.01	0.07
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	3/1/2029	2/14/2033	7	1447	20	2029	Concrete	20	20	0.10	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Slabs, Walkways, Plenum	8/23/2032	12/14/2034	7	844	20	2032	Concrete	24	24	0.10	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.6	0.01	0.07
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	2034	Concrete	-	-	0.10	0.19	4.15	3.04	0.00	-	0.00	0.00	-	0.00	0.00	447.6	0.01	0.07
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	2027	Concrete	-	-	0.10	0.19	4.64	2.98	0.00	-	0.00	0.00	-	0.00	0.00	482.8	0.01	0.08
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	2028	Concrete	2	2	0.10	0.19	4.54	2.98	0.00	-	0.00	0.00	-	0.00	0.00	475.0	0.01	0.07
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	2028	Concrete	-	-	0.10	0.19	4.54	2.98	0.00	-	0.00	0.00	-	0.00	0.00	475.0	0.01	0.07
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	2028	Concrete	36	36	0.10	0.19	4.54	2.98	0.00	-	0.00	0.00	-	0.00	0.00	475.0	0.01	0.07
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Concrete	-	-	0.10	0.19	4.54	2.98	0.00	-	0.00	0.00	-	0.00	0.00	475.0	0.01	0.07
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	2029	Concrete	-	-	0.10	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	2032	Concrete	-	-	0.10	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.6	0.01	0.07
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	4/3/2029	2/19/2032	7	1053	20	2029	Concrete	20	20	0.10	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Slabs, Walkways, Plenum	9/23/2031	5/18/2033	7	604	20	2031	Concrete	26	26	0.10	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.6	0.01	0.07
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	2033	Concrete	-	-	0.10	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.3	0.01	0.07
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	2030	Concrete	-	-	0.10	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	2030	Concrete	-	-	0.10	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	2030	Concrete	-	-	0.10	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	2031	Concrete	4	4	0.10	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.6	0.01	0.07
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Concrete	-	-	0.10	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.6	0.01	0.07
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	2029	Concrete	4	4	0.10	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	2030	Concrete	2	2	0.10	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	2030	Concrete	-	-	0.10	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	10/29/2030	12/24/2030	6	49	20	2030	Concrete	-	-	0.10	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	2030	Concrete	-	-	0.10	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	12/20/2031	1/20/2032	6	27	20	2031	Concrete	-	-	0.10	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.6	0.01	0.07
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	2032	Concrete	-	-	0.10	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.6	0.01	0.07
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Concrete	-	-	0.10	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.6	0.01	0.07
Segment 6-Reach 3 Portal to MSF-Paving	7/19/2032	7/14/2033	6	310	20	2032	Concrete	-	-	0.10	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.6	0.01	0.07
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Concrete	-	-	0.10	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	2030	Concrete	4	4	0.10	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	2030	Concrete	-	-	0.10	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	2030	Concrete	28	28	0.10	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	2030	Concrete	-	-	0.10	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Concrete	-	-	0.10	0.19	4.64	2.98	0.00	-	0.00	0.00	-	0.00	0.00	482.8	0.01	0.08
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Concrete	2	2	0.10	0.19	4.54	2.98	0.00	-	0.00	0.00	-	0.00	0.00	475.0	0.01	0.07
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	2029	Concrete	-	-	0.10	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
Metro E Line Stn_U-Alt5-TBM Pass Through-Maintenance	8/1/2030	9/30/2030	6	52	20	2030	Concrete	-	-	0.10	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	2030	Concrete	8	8	0.10	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	2031	Concrete	-	-	0.10	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.6	0.01	0.07
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	2034	Concrete	-	-	0.10	0.19	4.15	3.04	0.00	-	0.00	0.00	-	0.00	0.00	447.6	0.01	0.07
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	2028	Concrete	-	-	0.10	0.19	4.54	2.98	0.00	-	0.00	0.00	-	0.00	0.00	475.0	0.01	0.07
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	2029	Concrete	2	2	0.10	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	2029	Concrete	-	-	0.10	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
Santa Monica Stn_U-Alt5-TBM Pass Through-Maintenance	3/1/2031	4/30/2031	6	52	20	2031	Concrete	-	-	0.10	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.6	0.01	0.07
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	2030	Concrete	8	8	0.10	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	2032	Concrete	-	-	0.10	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.6	0.01	0.07

Sepulveda Transit Corridor Project - ALTERNATIVE 5

VENDOR TRUCKS (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Onsite Trips	Onsite Trip Length (miles)	Daily Emissions (lb/day)													
											ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	2028	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	2029	Concrete	2	2	0.10	0.00	0.02	0.01	0.00	0.08	0.00	0.08	0.01	0.00	0.01	3	0.00	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	2029	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	2029	Concrete	24	24	0.10	0.01	0.25	0.16	0.00	0.97	0.00	0.97	0.10	0.00	0.10	34	0.00	0.01
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	2029	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	2030	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	2032	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	4/15/2030	6/11/2032	7	789	20	2030	Concrete	18	18	0.10	0.01	0.18	0.12	0.00	0.73	0.00	0.73	0.07	0.00	0.07	25	0.00	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	6/12/2032	11/28/2033	7	535	20	2032	Concrete	20	20	0.10	0.01	0.20	0.13	0.00	0.81	0.00	0.81	0.08	0.00	0.08	27	0.00	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	12/1/2033	7/13/2034	7	225	20	2033	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	2029	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	2033	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	3/1/2029	2/14/2033	7	1447	20	2029	Concrete	20	20	0.10	0.01	0.21	0.13	0.00	0.81	0.00	0.81	0.08	0.00	0.08	28	0.00	0.00
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Slabs, Walkways, Plenum	8/23/2032	12/14/2034	7	844	20	2032	Concrete	24	24	0.10	0.01	0.24	0.16	0.00	0.97	0.00	0.97	0.10	0.00	0.10	33	0.00	0.01
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	2034	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	2027	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	2028	Concrete	2	2	0.10	0.00	0.02	0.01	0.00	0.08	0.00	0.08	0.01	0.00	0.01	3	0.00	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	2028	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	2028	Concrete	36	36	0.10	0.02	0.38	0.24	0.00	1.46	0.00	1.46	0.15	0.00	0.15	52	0.00	0.01
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	2029	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	2032	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	4/3/2029	2/19/2032	7	1053	20	2029	Concrete	20	20	0.10	0.01	0.21	0.13	0.00	0.81	0.00	0.81	0.08	0.00	0.08	28	0.00	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Slabs, Walkways, Plenum	9/23/2031	5/18/2033	7	604	20	2031	Concrete	26	26	0.10	0.01	0.26	0.17	0.00	1.05	0.00	1.06	0.11	0.00	0.11	36	0.00	0.01
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	2033	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	2030	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	2030	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	2030	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	2031	Concrete	4	4	0.10	0.00	0.04	0.03	0.00	0.16	0.00	0.16	0.02	0.00	0.02	6	0.00	0.00
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	2029	Concrete	4	4	0.10	0.00	0.04	0.03	0.00	0.16	0.00	0.16	0.02	0.00	0.02	6	0.00	0.00
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	2030	Concrete	2	2	0.10	0.00	0.02	0.01	0.00	0.08	0.00	0.08	0.01	0.00	0.01	3	0.00	0.00
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	2030	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	10/29/2030	12/24/2030	6	49	20	2030	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	2030	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	12/20/2031	1/20/2032	6	27	20	2031	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	2032	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Paving	7/19/2032	7/14/2033	6	310	20	2032	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	2030	Concrete	4	4	0.10	0.00	0.04	0.03	0.00	0.16	0.00	0.16	0.02	0.00	0.02	6	0.00	0.00
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	2030	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	2030	Concrete	28	28	0.10	0.01	0.29	0.19	0.00	1.14	0.00	1.14	0.11	0.00	0.11	39	0.00	0.01
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	2030	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Concrete	2	2	0.10	0.00	0.02	0.01	0.00	0.08	0.00	0.08	0.01	0.00	0.01	3	0.00	0.00
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	2029	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-TBM Pass Through-Maintenance	8/1/2030	9/30/2030	6	52	20	2030	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	2030	Concrete	8	8	0.10	0.00	0.08	0.05	0.00	0.32	0.00	0.32	0.03	0.00	0.03	11	0.00	0.00
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	2031	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	2034	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	2028	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	2029	Concrete	2	2	0.10	0.00	0.02	0.01	0.00	0.08	0.00	0.08	0.01	0.00	0.01	3	0.00	0.00
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	2029	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-TBM Pass Through-Maintenance	3/1/2031	4/30/2031	6	52	20	2031	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	2030	Concrete	8	8	0.10	0.00	0.08	0.05	0.00	0.32	0.00	0.32	0.03	0.00	0.03	11	0.00	0.00
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	2032	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 5

VENDOR TRUCKS (ONSITE)

										Total Emissions (tons)											Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Onsite Trips	Onsite Trip Length (miles)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	2028	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	2029	Concrete	2	2	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	2029	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	2029	Concrete	24	24	0.10	0.00	0.01	0.00	0.00	0.03	0.00	0.03	0.00	0.00	0.00	0.8	0.00	0.00	0.9
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	2029	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	2030	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	2032	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	4/15/2030	6/11/2032	7	789	20	2030	Concrete	18	18	0.10	0.00	0.07	0.05	0.00	0.29	0.00	0.29	0.03	0.00	0.03	9.0	0.00	0.00	9.5
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	6/12/2032	11/28/2033	7	535	20	2032	Concrete	20	20	0.10	0.00	0.05	0.04	0.00	0.22	0.00	0.22	0.02	0.00	0.02	6.7	0.00	0.00	7.0
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	12/1/2033	7/13/2034	7	225	20	2033	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	2029	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	2033	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	3/1/2029	2/14/2033	7	1447	20	2029	Concrete	20	20	0.10	0.01	0.15	0.10	0.00	0.59	0.00	0.59	0.06	0.00	0.06	18.6	0.00	0.00	19.5
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Slabs, Walkways, Plenum	8/23/2032	12/14/2034	7	844	20	2032	Concrete	24	24	0.10	0.00	0.10	0.07	0.00	0.41	0.00	0.41	0.04	0.00	0.04	12.6	0.00	0.00	13.2
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	2034	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	2027	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	2028	Concrete	2	2	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	2028	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	2028	Concrete	36	36	0.10	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.6	0.00	0.00	0.6
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	2029	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	2032	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	4/3/2029	2/19/2032	7	1053	20	2029	Concrete	20	20	0.10	0.00	0.11	0.07	0.00	0.43	0.00	0.43	0.04	0.00	0.04	13.6	0.00	0.00	14.2
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Slabs, Walkways, Plenum	9/23/2031	5/18/2033	7	604	20	2031	Concrete	26	26	0.10	0.00	0.08	0.05	0.00	0.32	0.00	0.32	0.03	0.00	0.03	9.9	0.00	0.00	10.3
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	2033	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	2030	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	2030	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	2030	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	2031	Concrete	4	4	0.10	0.00	0.01	0.00	0.00	0.03	0.00	0.03	0.00	0.00	0.00	0.9	0.00	0.00	0.9
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	2029	Concrete	4	4	0.10	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	2030	Concrete	2	2	0.10	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	2030	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	10/29/2030	12/24/2030	6	49	20	2030	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	2030	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	12/20/2031	1/20/2032	6	27	20	2031	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	2032	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Paving	7/19/2032	7/14/2033	6	310	20	2032	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	2030	Concrete	4	4	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	2030	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	2030	Concrete	28	28	0.10	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.5	0.00	0.00	0.5
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	2030	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Concrete	2	2	0.10	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.4
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	2029	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-TBM Pass Through-Maintenance	8/1/2030	9/30/2030	6	52	20	2030	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	2030	Concrete	8	8	0.10	0.00	0.03	0.02	0.00	0.10	0.00	0.10	0.01	0.00	0.01	3.2	0.00	0.00	3.3
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	2031	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	2034	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	2028	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	2029	Concrete	2	2	0.10	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.4
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	2029	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-TBM Pass Through-Maintenance	3/1/2031	4/30/2031	6	52	20	2031	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	2030	Concrete	8	8	0.10	0.00	0.03	0.02	0.00	0.10	0.00	0.10	0.01	0.00	0.01	3.2	0.00	0.00	3.3
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	2032	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 5

VENDOR TRUCKS (ONSITE)

										Running Emission Factor (g/mile)[1,2,4]													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Onsite Trips	Onsite Trip Length (miles)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	2029	Concrete	-	-	0.10	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	2030	Concrete	8	8	0.10	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	2030	Concrete	-	-	0.10	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
D Line Wilshire-Westwood Stn_U-Alt5-TBM Pass Through-Maintenance	10/1/2031	11/30/2031	6	52	20	2031	Concrete	-	-	0.10	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	2031	Concrete	12	12	0.10	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	2033	Concrete	-	-	0.10	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	2028	Concrete	-	-	0.10	0.02	2.97	0.24	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1781.8	0.00	0.28
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	2029	Concrete	6	6	0.10	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	2029	Concrete	-	-	0.10	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	2031	Concrete	8	8	0.10	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	2033	Concrete	8	8	0.10	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	2033	Concrete	-	-	0.10	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	2026	Concrete	-	-	0.10	0.02	3.05	0.25	0.02	184.05	0.00	184.05	18.37	0.00	18.37	1833.8	0.00	0.29
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	2026	Concrete	2	2	0.10	0.02	3.05	0.25	0.02	184.05	0.00	184.05	18.37	0.00	18.37	1833.8	0.00	0.29
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	2027	Concrete	-	-	0.10	0.02	3.01	0.24	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1807.4	0.00	0.28
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	2028	Concrete	10	10	0.10	0.02	2.97	0.24	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1781.8	0.00	0.28
Ventura Blvd Stn_U-Alt5-Mobilize/Launch Reach 2 TBM	10/1/2028	1/30/2029	7	122	20	2028	Concrete	-	-	0.10	0.02	2.97	0.24	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1781.8	0.00	0.28
Ventura Blvd Stn_U-Alt5-Retrieve/Demob Reach 3 TBM	2/19/2032	5/18/2032	7	90	20	2032	Concrete	-	-	0.10	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	2031	Concrete	6	6	0.10	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	2033	Concrete	-	-	0.10	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	2035	Concrete	-	-	0.10	0.02	2.76	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1639.3	0.00	0.26
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	2027	Concrete	-	-	0.10	0.02	3.01	0.24	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1807.4	0.00	0.28
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	2027	Concrete	2	2	0.10	0.02	3.01	0.24	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1807.4	0.00	0.28
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	2029	Concrete	-	-	0.10	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Sepulveda-Metro G Line Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2030	10/31/2030	6	52	20	2030	Concrete	-	-	0.10	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	2030	Concrete	12	12	0.10	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	2031	Concrete	-	-	0.10	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	2026	Concrete	-	-	0.10	0.02	3.05	0.25	0.02	184.05	0.00	184.05	18.37	0.00	18.37	1833.8	0.00	0.29
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	2027	Concrete	2	2	0.10	0.02	3.01	0.24	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1807.4	0.00	0.28
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	2028	Concrete	-	-	0.10	0.02	2.97	0.24	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1781.8	0.00	0.28
Sherman Way Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2029	10/31/2029	6	52	10	2029	Concrete	-	-	0.10	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	2029	Concrete	8	8	0.10	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	2030	Concrete	-	-	0.10	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	2033	Concrete	-	-	0.10	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	2029	Concrete	-	-	0.10	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	2030	Concrete	4	4	0.10	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	2030	Concrete	-	-	0.10	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	2031	Concrete	-	-	0.10	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	2032	Concrete	-	-	0.10	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Concrete	-	-	0.10	0.02	2.78	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1655.8	0.00	0.26
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Concrete	2	2	0.10	0.02	2.78	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1655.8	0.00	0.26
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Concrete	-	-	0.10	0.02	2.78	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1655.8	0.00	0.26
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Concrete	-	-	0.10	0.02	2.78	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1655.8	0.00	0.26
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Concrete	-	-	0.10	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Concrete	-	-	0.10	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Concrete	-	-	0.10	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Concrete	2	2	0.10	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Concrete	-	-	0.10	0.02	2.78	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1655.8	0.00	0.26
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Concrete	-	-	0.10	0.02	2.78	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1655.8	0.00	0.26
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Concrete	-	-	0.10	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	2028	Concrete	-	-	0.10	0.02	2.97	0.24	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1781.8	0.00	0.28
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Concrete	-	-	0.10	0.02	2.97	0.24	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1781.8	0.00	0.28
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Concrete	-	-	0.10	0.02	2.97	0.24	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1781.8	0.00	0.28

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** Heavy Duty-Mix (50% MHDT/50% HHDT); **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 5

VENDOR TRUCKS (ONSITE)

										Non-Running Emission Factor (g/trip)[1,3]													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Onsite Trips	Onsite Trip Length (miles)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	2029	Concrete	-	-	0.10	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	2030	Concrete	8	8	0.10	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	2030	Concrete	-	-	0.10	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
D Line Wilshire-Westwood Stn_U-Alt5-TBM Pass Through-Maintenance	10/1/2031	11/30/2031	6	52	20	2031	Concrete	-	-	0.10	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.6	0.01	0.07
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	2031	Concrete	12	12	0.10	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.6	0.01	0.07
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	2033	Concrete	-	-	0.10	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.3	0.01	0.07
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	2028	Concrete	-	-	0.10	0.19	4.54	2.98	0.00	-	0.00	0.00	-	0.00	0.00	475.0	0.01	0.07
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	2029	Concrete	6	6	0.10	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	2029	Concrete	-	-	0.10	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	2031	Concrete	8	8	0.10	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.6	0.01	0.07
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	2033	Concrete	8	8	0.10	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.3	0.01	0.07
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	2033	Concrete	-	-	0.10	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.3	0.01	0.07
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	2026	Concrete	-	-	0.10	0.19	4.72	2.98	0.00	-	0.00	0.00	-	0.00	0.00	491.0	0.01	0.08
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	2026	Concrete	2	2	0.10	0.19	4.72	2.98	0.00	-	0.00	0.00	-	0.00	0.00	491.0	0.01	0.08
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	2027	Concrete	-	-	0.10	0.19	4.64	2.98	0.00	-	0.00	0.00	-	0.00	0.00	482.8	0.01	0.08
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	2028	Concrete	10	10	0.10	0.19	4.54	2.98	0.00	-	0.00	0.00	-	0.00	0.00	475.0	0.01	0.07
Ventura Blvd Stn_U-Alt5-Mobilize/Launch Reach 2 TBM	10/1/2028	1/30/2029	7	122	20	2028	Concrete	-	-	0.10	0.19	4.54	2.98	0.00	-	0.00	0.00	-	0.00	0.00	475.0	0.01	0.07
Ventura Blvd Stn_U-Alt5-Retrieve/Demob Reach 3 TBM	2/19/2032	5/18/2032	7	90	20	2032	Concrete	-	-	0.10	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.6	0.01	0.07
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	2031	Concrete	6	6	0.10	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.6	0.01	0.07
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	2033	Concrete	-	-	0.10	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.3	0.01	0.07
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	2035	Concrete	-	-	0.10	0.19	4.12	3.05	0.00	-	0.00	0.00	-	0.00	0.00	445.5	0.01	0.07
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	2027	Concrete	-	-	0.10	0.19	4.64	2.98	0.00	-	0.00	0.00	-	0.00	0.00	482.8	0.01	0.08
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	2027	Concrete	2	2	0.10	0.19	4.64	2.98	0.00	-	0.00	0.00	-	0.00	0.00	482.8	0.01	0.08
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	2029	Concrete	-	-	0.10	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
Sepulveda-Metro G Line Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2030	10/31/2030	6	52	20	2030	Concrete	-	-	0.10	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	2030	Concrete	12	12	0.10	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	2031	Concrete	-	-	0.10	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.6	0.01	0.07
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	2026	Concrete	-	-	0.10	0.19	4.72	2.98	0.00	-	0.00	0.00	-	0.00	0.00	491.0	0.01	0.08
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	2027	Concrete	2	2	0.10	0.19	4.64	2.98	0.00	-	0.00	0.00	-	0.00	0.00	482.8	0.01	0.08
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	2028	Concrete	-	-	0.10	0.19	4.54	2.98	0.00	-	0.00	0.00	-	0.00	0.00	475.0	0.01	0.07
Sherman Way Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2029	10/31/2029	6	52	10	2029	Concrete	-	-	0.10	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	2029	Concrete	8	8	0.10	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	2030	Concrete	-	-	0.10	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	2033	Concrete	-	-	0.10	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.3	0.01	0.07
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	2029	Concrete	-	-	0.10	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	2030	Concrete	4	4	0.10	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	2030	Concrete	-	-	0.10	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	2031	Concrete	-	-	0.10	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.6	0.01	0.07
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	2032	Concrete	-	-	0.10	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.6	0.01	0.07
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Concrete	-	-	0.10	0.19	4.15	3.04	0.00	-	0.00	0.00	-	0.00	0.00	447.6	0.01	0.07
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Concrete	2	2	0.10	0.19	4.15	3.04	0.00	-	0.00	0.00	-	0.00	0.00	447.6	0.01	0.07
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Concrete	-	-	0.10	0.19	4.15	3.04	0.00	-	0.00	0.00	-	0.00	0.00	447.6	0.01	0.07
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Concrete	-	-	0.10	0.19	4.15	3.04	0.00	-	0.00	0.00	-	0.00	0.00	447.6	0.01	0.07
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Concrete	-	-	0.10	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.6	0.01	0.07
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Concrete	-	-	0.10	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.6	0.01	0.07
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Concrete	-	-	0.10	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.6	0.01	0.07
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Concrete	2	2	0.10	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.6	0.01	0.07
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Concrete	-	-	0.10	0.19	4.15	3.04	0.00	-	0.00	0.00	-	0.00	0.00	447.6	0.01	0.07
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Concrete	-	-	0.10	0.19	4.15	3.04	0.00	-	0.00	0.00	-	0.00	0.00	447.6	0.01	0.07
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Concrete	-	-	0.10	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.6	0.01	0.07
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	2028	Concrete	-	-	0.10	0.19	4.54	2.98	0.00	-	0.00	0.00	-	0.00	0.00	475.0	0.01	0.07
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Concrete	-	-	0.10	0.19	4.54	2.98	0.00	-	0.00	0.00	-	0.00	0.00	475.0	0.01	0.07
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Concrete	-	-	0.10	0.19	4.54	2.98	0.00	-	0.00	0.00	-	0.00	0.00	475.0	0.01	0.07

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** Heavy Duty-Mix (50% MHDT/50% HHDT); **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 5

VENDOR TRUCKS (ONSITE)

										Daily Emissions (lb/day)												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Onsite Trips	Onsite Trip Length (miles)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	2029	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	2030	Concrete	8	8	0.10	0.00	0.08	0.05	0.00	0.32	0.00	0.32	0.03	0.00	0.03	11	0.00	0.00
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	2030	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-TBM Pass Through-Maintenance	10/1/2031	11/30/2031	6	52	20	2031	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	2031	Concrete	12	12	0.10	0.01	0.12	0.08	0.00	0.49	0.00	0.49	0.05	0.00	0.05	17	0.00	0.00
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	2033	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	2028	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	2029	Concrete	6	6	0.10	0.00	0.06	0.04	0.00	0.24	0.00	0.24	0.02	0.00	0.02	9	0.00	0.00
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	2029	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	2031	Concrete	8	8	0.10	0.00	0.08	0.05	0.00	0.32	0.00	0.32	0.03	0.00	0.03	11	0.00	0.00
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	2033	Concrete	8	8	0.10	0.00	0.08	0.05	0.00	0.32	0.00	0.32	0.03	0.00	0.03	11	0.00	0.00
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	2033	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	2026	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	2026	Concrete	2	2	0.10	0.00	0.02	0.01	0.00	0.08	0.00	0.08	0.01	0.00	0.01	3	0.00	0.00
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	2027	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	2028	Concrete	10	10	0.10	0.00	0.11	0.07	0.00	0.41	0.00	0.41	0.04	0.00	0.04	14	0.00	0.00
Ventura Blvd Stn_U-Alt5-Mobilize/Launch Reach 2 TBM	10/1/2028	1/30/2029	7	122	20	2028	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Retrieve/Demob Reach 3 TBM	2/19/2032	5/18/2032	7	90	20	2032	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	2031	Concrete	6	6	0.10	0.00	0.06	0.04	0.00	0.24	0.00	0.24	0.02	0.00	0.02	8	0.00	0.00
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	2033	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	2035	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	2027	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	2027	Concrete	2	2	0.10	0.00	0.02	0.01	0.00	0.08	0.00	0.08	0.01	0.00	0.01	3	0.00	0.00
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	2029	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2030	10/31/2030	6	52	20	2030	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	2030	Concrete	12	12	0.10	0.01	0.12	0.08	0.00	0.49	0.00	0.49	0.05	0.00	0.05	17	0.00	0.00
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	2031	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	2026	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	2027	Concrete	2	2	0.10	0.00	0.02	0.01	0.00	0.08	0.00	0.08	0.01	0.00	0.01	3	0.00	0.00
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	2028	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2029	10/31/2029	6	52	10	2029	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	2029	Concrete	8	8	0.10	0.00	0.08	0.05	0.00	0.32	0.00	0.32	0.03	0.00	0.03	11	0.00	0.00
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	2030	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	2033	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	2029	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	2030	Concrete	4	4	0.10	0.00	0.04	0.03	0.00	0.16	0.00	0.16	0.02	0.00	0.02	6	0.00	0.00
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	2030	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	2031	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	2032	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Concrete	2	2	0.10	0.00	0.02	0.01	0.00	0.08	0.00	0.08	0.01	0.00	0.01	3	0.00	0.00
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Concrete	2	2	0.10	0.00	0.02	0.01	0.00	0.08	0.00	0.08	0.01	0.00	0.01	3	0.00	0.00
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	2028	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** Heavy Duty-Mix (50% MHDT/50% HHDT); **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 5

VENDOR TRUCKS (ONSITE)

											Total Emissions (tons)											Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Onsite Trips	Onsite Trip Length (miles)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	2029	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	2030	Concrete	8	8	0.10	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	1.3	0.00	0.00	1.4
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	2030	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-TBM Pass Through-Maintenance	10/1/2031	11/30/2031	6	52	20	2031	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	2031	Concrete	12	12	0.10	0.00	0.03	0.02	0.00	0.13	0.00	0.13	0.01	0.00	0.01	4.1	0.00	0.00	4.3
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	2033	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	2028	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	2029	Concrete	6	6	0.10	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	1.4	0.00	0.00	1.5
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	2029	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	2031	Concrete	8	8	0.10	0.00	0.02	0.01	0.00	0.07	0.00	0.07	0.01	0.00	0.01	2.1	0.00	0.00	2.2
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	2033	Concrete	8	8	0.10	0.00	0.01	0.01	0.00	0.06	0.00	0.06	0.01	0.00	0.01	1.8	0.00	0.00	1.9
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	2033	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	2026	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	2026	Concrete	2	2	0.10	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.5	0.00	0.00	0.5
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	2027	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	2028	Concrete	10	10	0.10	0.00	0.01	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.7	0.00	0.00	0.7
Ventura Blvd Stn_U-Alt5-Mobilize/Launch Reach 2 TBM	10/1/2028	1/30/2029	7	122	20	2028	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Retrieve/Demob Reach 3 TBM	2/19/2032	5/18/2032	7	90	20	2032	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	2031	Concrete	6	6	0.10	0.00	0.02	0.01	0.00	0.08	0.00	0.08	0.01	0.00	0.01	2.3	0.00	0.00	2.5
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	2033	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	2035	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	2027	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	2027	Concrete	2	2	0.10	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.5	0.00	0.00	0.5
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	2029	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2030	10/31/2030	6	52	20	2030	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	2030	Concrete	12	12	0.10	0.00	0.04	0.02	0.00	0.15	0.00	0.15	0.02	0.00	0.02	4.7	0.00	0.00	5.0
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	2031	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	2026	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	2027	Concrete	2	2	0.10	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.5	0.00	0.00	0.5
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	2028	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2029	10/31/2029	6	52	10	2029	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	2029	Concrete	8	8	0.10	0.00	0.03	0.02	0.00	0.10	0.00	0.10	0.01	0.00	0.01	3.2	0.00	0.00	3.3
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	2030	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	2033	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	2029	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	2030	Concrete	4	4	0.10	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	2030	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	2031	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	2032	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Concrete	2	2	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Concrete	2	2	0.10	0.00	0.01	0.01	0.00	0.03	0.00	0.03	0.00	0.00	0.00	1.0	0.00	0.00	1.0
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	2028	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Concrete	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** Heavy Duty-Mix (50% MHDT/50% HHDT); **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 5

VENDOR TRUCKS (OFFSITE)

										Running Emission Factor (g/mile)[1,2]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	2028	Concrete	-	-	10.20	0.01	0.91	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1267.9	0.00	0.20
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	2029	Concrete	2	4	10.20	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	2029	Concrete	-	-	10.20	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	2029	Concrete	24	48	10.20	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	2029	Concrete	-	-	10.20	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	2030	Concrete	-	-	10.20	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	2032	Concrete	-	-	10.20	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	4/15/2030	6/11/2032	7	789	20	2030	Concrete	18	36	10.20	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	6/12/2032	11/28/2033	7	535	20	2032	Concrete	20	40	10.20	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	12/1/2033	7/13/2034	7	225	20	2033	Concrete	-	-	10.20	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Concrete	-	-	10.20	0.01	0.91	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1267.9	0.00	0.20
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	2029	Concrete	-	-	10.20	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	2033	Concrete	-	-	10.20	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	3/1/2029	2/14/2033	7	1447	20	2029	Concrete	20	40	10.20	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Slabs, Walkways, Plenum	8/23/2032	12/14/2034	7	844	20	2032	Concrete	24	48	10.20	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	2034	Concrete	-	-	10.20	0.01	0.81	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1192.3	0.00	0.19
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	2027	Concrete	-	-	10.20	0.01	0.93	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1282.2	0.00	0.20
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	2028	Concrete	2	4	10.20	0.01	0.91	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1267.9	0.00	0.20
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	2028	Concrete	-	-	10.20	0.01	0.91	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1267.9	0.00	0.20
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	2028	Concrete	36	72	10.20	0.01	0.91	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1267.9	0.00	0.20
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Concrete	-	-	10.20	0.01	0.91	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1267.9	0.00	0.20
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	2029	Concrete	-	-	10.20	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	2032	Concrete	-	-	10.20	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	4/3/2029	2/19/2032	7	1053	20	2029	Concrete	20	40	10.20	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Slabs, Walkways, Plenum	9/23/2031	5/18/2033	7	604	20	2031	Concrete	26	52	10.20	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	2033	Concrete	-	-	10.20	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	2030	Concrete	-	-	10.20	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	2030	Concrete	-	-	10.20	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	2030	Concrete	-	-	10.20	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	2031	Concrete	4	8	10.20	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Concrete	-	-	10.20	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	2029	Concrete	4	8	10.20	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	2030	Concrete	2	4	10.20	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	2030	Concrete	-	-	10.20	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	10/29/2030	12/24/2030	6	49	20	2030	Concrete	-	-	10.20	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	2030	Concrete	-	-	10.20	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	12/20/2031	1/20/2032	6	27	20	2031	Concrete	-	-	10.20	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	2032	Concrete	-	-	10.20	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Concrete	-	-	10.20	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Segment 6-Reach 3 Portal to MSF-Paving	7/19/2032	7/14/2033	6	310	20	2032	Concrete	-	-	11.20	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Concrete	-	-	10.20	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	2030	Concrete	4	8	10.20	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	2030	Concrete	-	-	10.20	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	2030	Concrete	28	56	10.20	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	2030	Concrete	-	-	10.20	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Concrete	-	-	10.20	0.01	0.93	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1282.2	0.00	0.20
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Concrete	2	4	10.20	0.01	0.91	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1267.9	0.00	0.20
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	2029	Concrete	-	-	10.20	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Metro E Line Stn_U-Alt5-TBM Pass Through-Maintenance	8/1/2030	9/30/2030	6	52	20	2030	Concrete	-	-	10.20	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	2030	Concrete	8	16	10.20	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	2031	Concrete	-	-	10.20	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	2034	Concrete	-	-	10.20	0.01	0.81	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1192.3	0.00	0.19
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	2028	Concrete	-	-	10.20	0.01	0.91	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1267.9	0.00	0.20
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	2029	Concrete	2	4	10.20	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	2029	Concrete	-	-	10.20	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Santa Monica Stn_U-Alt5-TBM Pass Through-Maintenance	3/1/2031	4/30/2031	6	52	20	2031	Concrete	-	-	10.20	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	2030	Concrete	8	16	10.20	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	2032	Concrete	-	-	10.20	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19

Sepulveda Transit Corridor Project - ALTERNATIVE 5

VENDOR TRUCKS (OFFSITE)

										Non-Running Emission Factor (g/trip)[1,3]													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	2028	Concrete	-	-	10.20	0.19	4.54	2.98	0.00	-	0.00	0.00	-	0.00	0.00	475.0	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	2029	Concrete	2	4	10.20	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	2029	Concrete	-	-	10.20	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	2029	Concrete	24	48	10.20	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	2029	Concrete	-	-	10.20	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	2030	Concrete	-	-	10.20	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	2032	Concrete	-	-	10.20	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.6	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	4/15/2030	6/11/2032	7	789	20	2030	Concrete	18	36	10.20	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	6/12/2032	11/28/2033	7	535	20	2032	Concrete	20	40	10.20	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.6	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	12/1/2033	7/13/2034	7	225	20	2033	Concrete	-	-	10.20	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.3	0.01	0.07
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Concrete	-	-	10.20	0.19	4.54	2.98	0.00	-	0.00	0.00	-	0.00	0.00	475.0	0.01	0.07
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	2029	Concrete	-	-	10.20	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	2033	Concrete	-	-	10.20	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.3	0.01	0.07
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	3/1/2029	2/14/2033	7	1447	20	2029	Concrete	20	40	10.20	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Slabs, Walkways, Plenum	8/23/2032	12/14/2034	7	844	20	2032	Concrete	24	48	10.20	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.6	0.01	0.07
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	2034	Concrete	-	-	10.20	0.19	4.15	3.04	0.00	-	0.00	0.00	-	0.00	0.00	447.6	0.01	0.07
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	2027	Concrete	-	-	10.20	0.19	4.64	2.98	0.00	-	0.00	0.00	-	0.00	0.00	482.8	0.01	0.08
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	2028	Concrete	2	4	10.20	0.19	4.54	2.98	0.00	-	0.00	0.00	-	0.00	0.00	475.0	0.01	0.07
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	2028	Concrete	-	-	10.20	0.19	4.54	2.98	0.00	-	0.00	0.00	-	0.00	0.00	475.0	0.01	0.07
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	2028	Concrete	36	72	10.20	0.19	4.54	2.98	0.00	-	0.00	0.00	-	0.00	0.00	475.0	0.01	0.07
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Concrete	-	-	10.20	0.19	4.54	2.98	0.00	-	0.00	0.00	-	0.00	0.00	475.0	0.01	0.07
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	2029	Concrete	-	-	10.20	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	2032	Concrete	-	-	10.20	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.6	0.01	0.07
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	4/3/2029	2/19/2032	7	1053	20	2029	Concrete	20	40	10.20	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Slabs, Walkways, Plenum	9/23/2031	5/18/2033	7	604	20	2031	Concrete	26	52	10.20	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.6	0.01	0.07
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	2033	Concrete	-	-	10.20	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.3	0.01	0.07
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	2030	Concrete	-	-	10.20	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	2030	Concrete	-	-	10.20	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	2030	Concrete	-	-	10.20	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	2031	Concrete	4	8	10.20	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.6	0.01	0.07
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Concrete	-	-	10.20	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.6	0.01	0.07
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	2029	Concrete	4	8	10.20	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	2030	Concrete	2	4	10.20	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	2030	Concrete	-	-	10.20	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	10/29/2030	12/24/2030	6	49	20	2030	Concrete	-	-	10.20	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	2030	Concrete	-	-	10.20	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	12/20/2031	1/20/2032	6	27	20	2031	Concrete	-	-	10.20	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.6	0.01	0.07
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	2032	Concrete	-	-	10.20	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.6	0.01	0.07
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Concrete	-	-	10.20	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.6	0.01	0.07
Segment 6-Reach 3 Portal to MSF-Paving	7/19/2032	7/14/2033	6	310	20	2032	Concrete	-	-	11.20	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.6	0.01	0.07
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Concrete	-	-	10.20	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	2030	Concrete	4	8	10.20	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	2030	Concrete	-	-	10.20	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	2030	Concrete	28	56	10.20	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	2030	Concrete	-	-	10.20	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Concrete	-	-	10.20	0.19	4.64	2.98	0.00	-	0.00	0.00	-	0.00	0.00	482.8	0.01	0.08
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Concrete	2	4	10.20	0.19	4.54	2.98	0.00	-	0.00	0.00	-	0.00	0.00	475.0	0.01	0.07
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	2029	Concrete	-	-	10.20	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
Metro E Line Stn_U-Alt5-TBM Pass Through-Maintenance	8/1/2030	9/30/2030	6	52	20	2030	Concrete	-	-	10.20	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	2030	Concrete	8	16	10.20	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	2031	Concrete	-	-	10.20	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.6	0.01	0.07
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	2034	Concrete	-	-	10.20	0.19	4.15	3.04	0.00	-	0.00	0.00	-	0.00	0.00	447.6	0.01	0.07
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	2028	Concrete	-	-	10.20	0.19	4.54	2.98	0.00	-	0.00	0.00	-	0.00	0.00	475.0	0.01	0.07
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	2029	Concrete	2	4	10.20	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	2029	Concrete	-	-	10.20	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
Santa Monica Stn_U-Alt5-TBM Pass Through-Maintenance	3/1/2031	4/30/2031	6	52	20	2031	Concrete	-	-	10.20	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.6	0.01	0.07
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	2030	Concrete	8	16	10.20	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	2032	Concrete	-	-	10.20	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.6	0.01	0.07

Sepulveda Transit Corridor Project - ALTERNATIVE 5

VENDOR TRUCKS (OFFSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Daily Emissions (lb/day)												
											ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	2028	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	2029	Concrete	2	4	10.20	0.00	0.12	0.03	0.00	0.03	0.00	0.04	0.01	0.00	0.01	117	0.00	0.02
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	2029	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	2029	Concrete	24	48	10.20	0.03	1.43	0.37	0.01	0.42	0.02	0.43	0.11	0.02	0.13	1403	0.00	0.22
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	2029	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	2030	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	2032	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	4/15/2030	6/11/2032	7	789	20	2030	Concrete	18	36	10.20	0.02	1.05	0.27	0.01	0.31	0.01	0.32	0.08	0.01	0.09	1041	0.00	0.16
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	6/12/2032	11/28/2033	7	535	20	2032	Concrete	20	40	10.20	0.02	1.13	0.31	0.01	0.35	0.01	0.36	0.09	0.01	0.11	1133	0.00	0.18
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	12/1/2033	7/13/2034	7	225	20	2033	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	2029	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	2033	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	3/1/2029	2/14/2033	7	1447	20	2029	Concrete	20	40	10.20	0.02	1.19	0.31	0.01	0.35	0.01	0.36	0.09	0.01	0.11	1169	0.00	0.18
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Slabs, Walkways, Plenum	8/23/2032	12/14/2034	7	844	20	2032	Concrete	24	48	10.20	0.03	1.35	0.37	0.01	0.42	0.02	0.43	0.11	0.02	0.13	1360	0.00	0.21
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	2034	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	2027	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	2028	Concrete	2	4	10.20	0.00	0.12	0.03	0.00	0.03	0.00	0.04	0.01	0.00	0.01	118	0.00	0.02
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	2028	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	2028	Concrete	36	72	10.20	0.04	2.19	0.55	0.02	0.62	0.03	0.65	0.17	0.02	0.19	2128	0.00	0.34
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	2029	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	2032	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	4/3/2029	2/19/2032	7	1053	20	2029	Concrete	20	40	10.20	0.02	1.19	0.31	0.01	0.35	0.01	0.36	0.09	0.01	0.11	1169	0.00	0.18
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Slabs, Walkways, Plenum	9/23/2031	5/18/2033	7	604	20	2031	Concrete	26	52	10.20	0.03	1.49	0.40	0.01	0.45	0.02	0.47	0.12	0.02	0.14	1488	0.00	0.23
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	2033	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	2030	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	2030	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	2030	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	2031	Concrete	4	8	10.20	0.00	0.23	0.06	0.00	0.07	0.00	0.07	0.02	0.00	0.02	229	0.00	0.04
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	2029	Concrete	4	8	10.20	0.00	0.24	0.06	0.00	0.07	0.00	0.07	0.02	0.00	0.02	234	0.00	0.04
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	2030	Concrete	2	4	10.20	0.00	0.12	0.03	0.00	0.03	0.00	0.04	0.01	0.00	0.01	116	0.00	0.02
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	2030	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	10/29/2030	12/24/2030	6	49	20	2030	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	2030	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	12/20/2031	1/20/2032	6	27	20	2031	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	2032	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Paving	7/19/2032	7/14/2033	6	310	20	2032	Concrete	-	-	11.20	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	2030	Concrete	4	8	10.20	0.00	0.23	0.06	0.00	0.07	0.00	0.07	0.02	0.00	0.02	231	0.00	0.04
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	2030	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	2030	Concrete	28	56	10.20	0.03	1.63	0.43	0.02	0.48	0.02	0.50	0.13	0.02	0.15	1620	0.00	0.26
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	2030	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Concrete	2	4	10.20	0.00	0.12	0.03	0.00	0.03	0.00	0.04	0.01	0.00	0.01	118	0.00	0.02
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	2029	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-TBM Pass Through-Maintenance	8/1/2030	9/30/2030	6	52	20	2030	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	2030	Concrete	8	16	10.20	0.01	0.47	0.12	0.00	0.14	0.01	0.14	0.04	0.01	0.04	463	0.00	0.07
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	2031	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	2034	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	2028	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	2029	Concrete	2	4	10.20	0.00	0.12	0.03	0.00	0.03	0.00	0.04	0.01	0.00	0.01	117	0.00	0.02
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	2029	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-TBM Pass Through-Maintenance	3/1/2031	4/30/2031	6	52	20	2031	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	2030	Concrete	8	16	10.20	0.01	0.47	0.12	0.00	0.14	0.01	0.14	0.04	0.01	0.04	463	0.00	0.07
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	2032	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 5

VENDOR TRUCKS (OFFSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Total Emissions (tons)										Total Emissions (metric tons)			
											ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	2028	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	2029	Concrete	2	4	10.20	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.5	0.00	0.00	5.7
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	2029	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	2029	Concrete	24	48	10.20	0.00	0.04	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	34.4	0.00	0.01	36.0
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	2029	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	2030	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	2032	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	4/15/2030	6/11/2032	7	789	20	2030	Concrete	18	36	10.20	0.01	0.41	0.11	0.00	0.12	0.00	0.13	0.03	0.00	0.04	372.6	0.00	0.06	390.1
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	6/12/2032	11/28/2033	7	535	20	2032	Concrete	20	40	10.20	0.01	0.30	0.08	0.00	0.09	0.00	0.10	0.02	0.00	0.03	274.9	0.00	0.04	287.9
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	12/1/2033	7/13/2034	7	225	20	2033	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	2029	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	2033	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	3/1/2029	2/14/2033	7	1447	20	2029	Concrete	20	40	10.20	0.02	0.86	0.22	0.01	0.25	0.01	0.26	0.07	0.01	0.08	767.5	0.00	0.12	803.6
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Slabs, Walkways, Plenum	8/23/2032	12/14/2034	7	844	20	2032	Concrete	24	48	10.20	0.01	0.57	0.15	0.01	0.18	0.01	0.18	0.05	0.01	0.05	520.5	0.00	0.08	544.9
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	2034	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	2027	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	2028	Concrete	2	4	10.20	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.5	0.00	0.00	5.8
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	2028	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	2028	Concrete	36	72	10.20	0.00	0.03	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	25.1	0.00	0.00	26.3
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	2029	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	2032	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	4/3/2029	2/19/2032	7	1053	20	2029	Concrete	20	40	10.20	0.01	0.63	0.16	0.01	0.18	0.01	0.19	0.05	0.01	0.06	558.5	0.00	0.09	584.8
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Slabs, Walkways, Plenum	9/23/2031	5/18/2033	7	604	20	2031	Concrete	26	52	10.20	0.01	0.45	0.12	0.00	0.14	0.01	0.14	0.04	0.01	0.04	407.7	0.00	0.06	426.8
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	2033	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	2030	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	2030	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	2030	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	2031	Concrete	4	8	10.20	0.00	0.04	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.0	0.00	0.01	38.7
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	2029	Concrete	4	8	10.20	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.3	0.00	0.00	8.7
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	2030	Concrete	2	4	10.20	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.3	0.00	0.00	12.9
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	2030	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	10/29/2030	12/24/2030	6	49	20	2030	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	2030	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	12/20/2031	1/20/2032	6	27	20	2031	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	2032	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Paving	7/19/2032	7/14/2033	6	310	20	2032	Concrete	-	-	11.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	2030	Concrete	4	8	10.20	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.7	0.00	0.00	5.9
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	2030	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	2030	Concrete	28	56	10.20	0.00	0.02	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	19.1	0.00	0.00	20.0
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	2030	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Concrete	2	4	10.20	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.0	0.00	0.00	14.7
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	2029	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-TBM Pass Through-Maintenance	8/1/2030	9/30/2030	6	52	20	2030	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	2030	Concrete	8	16	10.20	0.00	0.15	0.04	0.00	0.04	0.00	0.05	0.01	0.00	0.01	131.2	0.00	0.02	137.4
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	2031	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	2034	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	2028	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	2029	Concrete	2	4	10.20	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.0	0.00	0.00	14.6
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	2029	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-TBM Pass Through-Maintenance	3/1/2031	4/30/2031	6	52	20	2031	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	2030	Concrete	8	16	10.20	0.00	0.14	0.04	0.00	0.04	0.00	0.04	0.01	0.00	0.01	130.1	0.00	0.02	136.3
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	2032	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 5

VENDOR TRUCKS (OFFSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Running Emission Factor (g/mile)[1,2] ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	2029	Concrete	-	-	10.20	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	2030	Concrete	8	16	10.20	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	2030	Concrete	-	-	10.20	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
D Line Wilshire-Westwood Stn_U-Alt5-TBM Pass Through-Maintenance	10/1/2031	11/30/2031	6	52	20	2031	Concrete	-	-	10.20	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	2031	Concrete	12	24	10.20	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	2033	Concrete	-	-	10.20	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	2028	Concrete	-	-	10.20	0.01	0.91	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1267.9	0.00	0.20
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	2029	Concrete	6	12	10.20	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	2029	Concrete	-	-	10.20	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	2031	Concrete	8	16	10.20	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	2033	Concrete	8	16	10.20	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	2033	Concrete	-	-	10.20	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	2026	Concrete	-	-	10.20	0.01	0.96	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1295.2	0.00	0.20
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	2026	Concrete	2	4	10.20	0.01	0.96	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1295.2	0.00	0.20
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	2027	Concrete	-	-	10.20	0.01	0.93	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1282.2	0.00	0.20
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	2028	Concrete	10	20	10.20	0.01	0.91	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1267.9	0.00	0.20
Ventura Blvd Stn_U-Alt5-Mobilize/Launch Reach 2 TBM	10/1/2028	1/30/2029	7	122	20	2028	Concrete	-	-	10.20	0.01	0.91	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1267.9	0.00	0.20
Ventura Blvd Stn_U-Alt5-Retrieve/Demob Reach 3 TBM	2/19/2032	5/18/2032	7	90	20	2032	Concrete	-	-	10.20	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	2031	Concrete	6	12	10.20	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	2033	Concrete	-	-	10.20	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	2035	Concrete	-	-	10.20	0.01	0.79	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1182.1	0.00	0.19
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	2027	Concrete	-	-	10.20	0.01	0.93	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1282.2	0.00	0.20
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	2027	Concrete	2	4	10.20	0.01	0.93	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1282.2	0.00	0.20
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	2029	Concrete	-	-	10.20	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Sepulveda-Metro G Line Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2030	10/31/2030	6	52	20	2030	Concrete	-	-	10.20	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	2030	Concrete	12	24	10.20	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	2031	Concrete	-	-	10.20	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	2026	Concrete	-	-	10.20	0.01	0.96	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1295.2	0.00	0.20
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	2027	Concrete	2	4	10.20	0.01	0.93	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1282.2	0.00	0.20
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	2028	Concrete	-	-	10.20	0.01	0.91	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1267.9	0.00	0.20
Sherman Way Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2029	10/31/2029	6	52	10	2029	Concrete	-	-	10.20	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	2029	Concrete	8	16	10.20	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	2030	Concrete	-	-	10.20	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	2033	Concrete	-	-	10.20	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	2029	Concrete	-	-	10.20	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	2030	Concrete	4	8	10.20	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	2030	Concrete	-	-	10.20	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	2031	Concrete	-	-	10.20	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	2032	Concrete	-	-	10.20	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Concrete	-	-	10.20	0.01	0.81	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1192.3	0.00	0.19
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Concrete	2	4	10.20	0.01	0.81	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1192.3	0.00	0.19
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Concrete	-	-	10.20	0.01	0.81	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1192.3	0.00	0.19
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Concrete	-	-	10.20	0.01	0.81	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1192.3	0.00	0.19
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Concrete	-	-	10.20	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Concrete	-	-	10.20	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Concrete	-	-	10.20	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Concrete	2	4	10.20	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Concrete	-	-	10.20	0.01	0.81	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1192.3	0.00	0.19
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Concrete	-	-	10.20	0.01	0.81	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1192.3	0.00	0.19
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Concrete	-	-	10.20	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	2028	Concrete	-	-	10.20	0.01	0.91	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1267.9	0.00	0.20
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Concrete	-	-	10.20	0.01	0.91	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1267.9	0.00	0.20
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Concrete	-	-	10.20	0.01	0.91	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1267.9	0.00	0.20

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate; **Fleet Mix:** Heavy Duty-Mix (50% MHDT/50% HHDT); **Fuel Type:** Diesel
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 5

VENDOR TRUCKS (OFFSITE)

										Non-Running Emission Factor (g/trip)[1,3]													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	2029	Concrete	-	-	10.20	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	2030	Concrete	8	16	10.20	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	2030	Concrete	-	-	10.20	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
D Line Wilshire-Westwood Stn_U-Alt5-TBM Pass Through-Maintenance	10/1/2031	11/30/2031	6	52	20	2031	Concrete	-	-	10.20	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.6	0.01	0.07
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	2031	Concrete	12	24	10.20	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.6	0.01	0.07
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	2033	Concrete	-	-	10.20	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.3	0.01	0.07
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	2028	Concrete	-	-	10.20	0.19	4.54	2.98	0.00	-	0.00	0.00	-	0.00	0.00	475.0	0.01	0.07
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	2029	Concrete	6	12	10.20	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	2029	Concrete	-	-	10.20	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	2031	Concrete	8	16	10.20	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.6	0.01	0.07
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	2033	Concrete	8	16	10.20	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.3	0.01	0.07
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	2033	Concrete	-	-	10.20	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.3	0.01	0.07
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	2026	Concrete	-	-	10.20	0.19	4.72	2.98	0.00	-	0.00	0.00	-	0.00	0.00	491.0	0.01	0.08
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	2026	Concrete	2	4	10.20	0.19	4.72	2.98	0.00	-	0.00	0.00	-	0.00	0.00	491.0	0.01	0.08
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	2027	Concrete	-	-	10.20	0.19	4.64	2.98	0.00	-	0.00	0.00	-	0.00	0.00	482.8	0.01	0.08
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	2028	Concrete	10	20	10.20	0.19	4.54	2.98	0.00	-	0.00	0.00	-	0.00	0.00	475.0	0.01	0.07
Ventura Blvd Stn_U-Alt5-Mobilize/Launch Reach 2 TBM	10/1/2028	1/30/2029	7	122	20	2028	Concrete	-	-	10.20	0.19	4.54	2.98	0.00	-	0.00	0.00	-	0.00	0.00	475.0	0.01	0.07
Ventura Blvd Stn_U-Alt5-Retrieve/Demob Reach 3 TBM	2/19/2032	5/18/2032	7	90	20	2032	Concrete	-	-	10.20	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.6	0.01	0.07
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	2031	Concrete	6	12	10.20	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.6	0.01	0.07
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	2033	Concrete	-	-	10.20	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.3	0.01	0.07
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	2035	Concrete	-	-	10.20	0.19	4.12	3.05	0.00	-	0.00	0.00	-	0.00	0.00	445.5	0.01	0.07
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	2027	Concrete	-	-	10.20	0.19	4.64	2.98	0.00	-	0.00	0.00	-	0.00	0.00	482.8	0.01	0.08
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	2027	Concrete	2	4	10.20	0.19	4.64	2.98	0.00	-	0.00	0.00	-	0.00	0.00	482.8	0.01	0.08
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	2029	Concrete	-	-	10.20	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
Sepulveda-Metro G Line Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2030	10/31/2030	6	52	20	2030	Concrete	-	-	10.20	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	2030	Concrete	12	24	10.20	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	2031	Concrete	-	-	10.20	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.6	0.01	0.07
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	2026	Concrete	-	-	10.20	0.19	4.72	2.98	0.00	-	0.00	0.00	-	0.00	0.00	491.0	0.01	0.08
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	2027	Concrete	2	4	10.20	0.19	4.64	2.98	0.00	-	0.00	0.00	-	0.00	0.00	482.8	0.01	0.08
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	2028	Concrete	-	-	10.20	0.19	4.54	2.98	0.00	-	0.00	0.00	-	0.00	0.00	475.0	0.01	0.07
Sherman Way Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2029	10/31/2029	6	52	10	2029	Concrete	-	-	10.20	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	2029	Concrete	8	16	10.20	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	2030	Concrete	-	-	10.20	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	2033	Concrete	-	-	10.20	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.3	0.01	0.07
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	2029	Concrete	-	-	10.20	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	2030	Concrete	4	8	10.20	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	2030	Concrete	-	-	10.20	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	2031	Concrete	-	-	10.20	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.6	0.01	0.07
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	2032	Concrete	-	-	10.20	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.6	0.01	0.07
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Concrete	-	-	10.20	0.19	4.15	3.04	0.00	-	0.00	0.00	-	0.00	0.00	447.6	0.01	0.07
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Concrete	2	4	10.20	0.19	4.15	3.04	0.00	-	0.00	0.00	-	0.00	0.00	447.6	0.01	0.07
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Concrete	-	-	10.20	0.19	4.15	3.04	0.00	-	0.00	0.00	-	0.00	0.00	447.6	0.01	0.07
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Concrete	-	-	10.20	0.19	4.15	3.04	0.00	-	0.00	0.00	-	0.00	0.00	447.6	0.01	0.07
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Concrete	-	-	10.20	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.6	0.01	0.07
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Concrete	-	-	10.20	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.6	0.01	0.07
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Concrete	-	-	10.20	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.6	0.01	0.07
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Concrete	2	4	10.20	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.6	0.01	0.07
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Concrete	-	-	10.20	0.19	4.15	3.04	0.00	-	0.00	0.00	-	0.00	0.00	447.6	0.01	0.07
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Concrete	-	-	10.20	0.19	4.15	3.04	0.00	-	0.00	0.00	-	0.00	0.00	447.6	0.01	0.07
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Concrete	-	-	10.20	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.6	0.01	0.07
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	2028	Concrete	-	-	10.20	0.19	4.54	2.98	0.00	-	0.00	0.00	-	0.00	0.00	475.0	0.01	0.07
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Concrete	-	-	10.20	0.19	4.54	2.98	0.00	-	0.00	0.00	-	0.00	0.00	475.0	0.01	0.07
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Concrete	-	-	10.20	0.19	4.54	2.98	0.00	-	0.00	0.00	-	0.00	0.00	475.0	0.01	0.07

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate; **Fleet Mix:** Heavy Duty-Mix (50% MHDT/50% HHDT); **Fuel Type:** Diesel
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 5

VENDOR TRUCKS (OFFSITE)

										Daily Emissions (lb/day)												
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Hours per Workday**	**EF Year**	**Trip Type**	**Round Trips per Day**	**Total One-Way Trips per Day**	**One-Way Trip Length (mi)**	**ROG**	**NO_X**	**CO**	**SO_X**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**	**CO_2**	**CH_4**	**N_2O**
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	2029	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	2030	Concrete	8	16	10.20	0.01	0.47	0.12	0.00	0.14	0.01	0.14	0.04	0.01	0.04	463	0.00	0.07
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	2030	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-TBM Pass Through-Maintenance	10/1/2031	11/30/2031	6	52	20	2031	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	2031	Concrete	12	24	10.20	0.01	0.69	0.18	0.01	0.21	0.01	0.22	0.06	0.01	0.06	687	0.00	0.11
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	2033	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	2028	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	2029	Concrete	6	12	10.20	0.01	0.36	0.09	0.00	0.10	0.00	0.11	0.03	0.00	0.03	351	0.00	0.06
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	2029	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	2031	Concrete	8	16	10.20	0.01	0.46	0.12	0.00	0.14	0.01	0.14	0.04	0.01	0.04	458	0.00	0.07
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	2033	Concrete	8	16	10.20	0.01	0.44	0.12	0.00	0.14	0.01	0.14	0.04	0.01	0.04	449	0.00	0.07
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	2033	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	2026	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	2026	Concrete	2	4	10.20	0.00	0.13	0.03	0.00	0.03	0.00	0.04	0.01	0.00	0.01	121	0.00	0.02
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	2027	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	2028	Concrete	10	20	10.20	0.01	0.61	0.15	0.01	0.17	0.01	0.18	0.05	0.01	0.05	591	0.00	0.09
Ventura Blvd Stn_U-Alt5-Mobilize/Launch Reach 2 TBM	10/1/2028	1/30/2029	7	122	20	2028	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Retrieve/Demob Reach 3 TBM	2/19/2032	5/18/2032	7	90	20	2032	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	2031	Concrete	6	12	10.20	0.01	0.34	0.09	0.00	0.10	0.00	0.11	0.03	0.00	0.03	343	0.00	0.05
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	2033	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	2035	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	2027	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	2027	Concrete	2	4	10.20	0.00	0.12	0.03	0.00	0.03	0.00	0.04	0.01	0.00	0.01	120	0.00	0.02
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	2029	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2030	10/31/2030	6	52	20	2030	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	2030	Concrete	12	24	10.20	0.01	0.70	0.18	0.01	0.21	0.01	0.22	0.06	0.01	0.06	694	0.00	0.11
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	2031	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	2026	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	2027	Concrete	2	4	10.20	0.00	0.12	0.03	0.00	0.03	0.00	0.04	0.01	0.00	0.01	120	0.00	0.02
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	2028	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2029	10/31/2029	6	52	10	2029	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	2029	Concrete	8	16	10.20	0.01	0.48	0.12	0.00	0.14	0.01	0.14	0.04	0.01	0.04	468	0.00	0.07
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	2030	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	2033	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	2029	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	2030	Concrete	4	8	10.20	0.00	0.23	0.06	0.00	0.07	0.00	0.07	0.02	0.00	0.02	231	0.00	0.04
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	2030	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	2031	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	2032	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Concrete	2	4	10.20	0.00	0.11	0.03	0.00	0.03	0.00	0.04	0.01	0.00	0.01	111	0.00	0.02
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Concrete	2	4	10.20	0.00	0.11	0.03	0.00	0.03	0.00	0.04	0.01	0.00	0.01	113	0.00	0.02
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	2028	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate; **Fleet Mix:** Heavy Duty-Mix (50% MHDT/50% HHDT); **Fuel Type:** Diesel
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 5

VENDOR TRUCKS (OFFSITE)

										Total Emissions (tons)											Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	2029	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	2030	Concrete	8	16	10.20	0.00	0.06	0.02	0.00	0.02	0.00	0.02	0.00	0.00	0.01	54.8	0.00	0.01	57.4
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	2030	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-TBM Pass Through-Maintenance	10/1/2031	11/30/2031	6	52	20	2031	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	2031	Concrete	12	24	10.20	0.00	0.19	0.05	0.00	0.06	0.00	0.06	0.02	0.00	0.02	169.5	0.00	0.03	177.4
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	2033	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	2028	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	2029	Concrete	6	12	10.20	0.00	0.06	0.02	0.00	0.02	0.00	0.02	0.01	0.00	0.01	57.9	0.00	0.01	60.6
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	2029	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	2031	Concrete	8	16	10.20	0.00	0.09	0.03	0.00	0.03	0.00	0.03	0.01	0.00	0.01	85.8	0.00	0.01	89.8
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	2033	Concrete	8	16	10.20	0.00	0.08	0.02	0.00	0.03	0.00	0.03	0.01	0.00	0.01	73.5	0.00	0.01	77.0
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	2033	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	2026	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	2026	Concrete	2	4	10.20	0.00	0.02	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	19.3	0.00	0.00	20.2
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	2027	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	2028	Concrete	10	20	10.20	0.00	0.03	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	28.2	0.00	0.00	29.5
Ventura Blvd Stn_U-Alt5-Mobilize/Launch Reach 2 TBM	10/1/2028	1/30/2029	7	122	20	2028	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Retrieve/Demob Reach 3 TBM	2/19/2032	5/18/2032	7	90	20	2032	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	2031	Concrete	6	12	10.20	0.00	0.11	0.03	0.00	0.03	0.00	0.03	0.01	0.00	0.01	96.6	0.00	0.02	101.1
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	2033	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	2035	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	2027	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	2027	Concrete	2	4	10.20	0.00	0.02	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	19.9	0.00	0.00	20.8
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	2029	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2030	10/31/2030	6	52	20	2030	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	2030	Concrete	12	24	10.20	0.00	0.22	0.06	0.00	0.06	0.00	0.07	0.02	0.00	0.02	195.5	0.00	0.03	204.7
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	2031	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	2026	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	2027	Concrete	2	4	10.20	0.00	0.02	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	19.8	0.00	0.00	20.7
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	2028	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2029	10/31/2029	6	52	10	2029	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	2029	Concrete	8	16	10.20	0.00	0.15	0.04	0.00	0.04	0.00	0.04	0.01	0.00	0.01	131.5	0.00	0.02	137.7
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	2030	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	2033	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	2029	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	2030	Concrete	4	8	10.20	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.0	0.00	0.00	13.6
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	2030	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	2031	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	2032	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Concrete	2	4	10.20	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.2	0.00	0.00	5.5
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Concrete	2	4	10.20	0.00	0.04	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	40.2	0.00	0.01	42.1
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	2028	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Concrete	-	-	10.20	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate; **Fleet Mix:** Heavy Duty-Mix (50% MHDT/50% HHDT); **Fuel Type:** Diesel
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 5

WATER TRUCKS (ONSITE)

										Running Emission Factor (g/mile)[1,2,4]													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	2028	Water	3	3	0.10	0.02	2.97	0.24	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1781.8	0.00	0.28
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	2029	Water	3	3	0.10	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	2029	Water	3	3	0.10	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	2029	Water	3	3	0.10	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	2029	Water	-	-	0.10	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	2030	Water	-	-	0.10	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	2032	Water	-	-	0.10	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	4/15/2030	6/11/2032	7	789	20	2030	Water	-	-	0.10	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	6/12/2032	11/28/2033	7	535	20	2032	Water	-	-	0.10	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	12/1/2033	7/13/2034	7	225	20	2033	Water	-	-	0.10	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Water	3	3	0.10	0.02	2.97	0.24	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1781.8	0.00	0.28
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	2029	Water	-	-	0.10	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	2033	Water	-	-	0.10	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	3/1/2029	2/14/2033	7	1447	20	2029	Water	-	-	0.10	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Slabs, Walkways, Plenum	8/23/2032	12/14/2034	7	844	20	2032	Water	-	-	0.10	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	2034	Water	-	-	0.10	0.02	2.78	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1655.8	0.00	0.26
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	2027	Water	3	3	0.10	0.02	3.01	0.24	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1807.4	0.00	0.28
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	2028	Water	3	3	0.10	0.02	2.97	0.24	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1781.8	0.00	0.28
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	2028	Water	3	3	0.10	0.02	2.97	0.24	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1781.8	0.00	0.28
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	2028	Water	3	3	0.10	0.02	2.97	0.24	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1781.8	0.00	0.28
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Water	3	3	0.10	0.02	2.97	0.24	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1781.8	0.00	0.28
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	2029	Water	-	-	0.10	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	2032	Water	-	-	0.10	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	4/3/2029	2/19/2032	7	1053	20	2029	Water	-	-	0.10	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Slabs, Walkways, Plenum	9/23/2031	5/18/2033	7	604	20	2031	Water	-	-	0.10	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	2033	Water	-	-	0.10	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	2030	Water	3	3	0.10	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	2030	Water	3	3	0.10	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	2030	Water	3	3	0.10	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	2031	Water	3	3	0.10	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Water	3	3	0.10	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	2029	Water	3	3	0.10	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	2030	Water	3	3	0.10	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	2030	Water	3	3	0.10	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	10/29/2030	12/24/2030	6	49	20	2030	Water	3	3	0.10	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	2030	Water	3	3	0.10	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	12/20/2031	1/20/2032	6	27	20	2031	Water	3	3	0.10	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	2032	Water	3	3	0.10	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Water	3	3	0.10	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Segment 6-Reach 3 Portal to MSF-Paving	7/19/2032	7/14/2033	6	310	20	2032	Water	3	3	0.10	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Water	3	3	0.10	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	2030	Water	3	3	0.10	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	2030	Water	3	3	0.10	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	2030	Water	3	3	0.10	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	2030	Water	3	3	0.10	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Water	3	3	0.10	0.02	3.01	0.24	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1807.4	0.00	0.28
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Water	3	3	0.10	0.02	2.97	0.24	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1781.8	0.00	0.28
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	2029	Water	3	3	0.10	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Metro E Line Stn_U-Alt5-TBM Pass Through-Maintenance	8/1/2030	9/30/2030	6	52	20	2030	Water	3	3	0.10	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	2030	Water	-	-	0.10	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	2031	Water	-	-	0.10	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	2034	Water	-	-	0.10	0.02	2.78	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1655.8	0.00	0.26
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	2028	Water	3	3	0.10	0.02	2.97	0.24	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1781.8	0.00	0.28
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	2029	Water	3	3	0.10	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	2029	Water	3	3	0.10	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Santa Monica Stn_U-Alt5-TBM Pass Through-Maintenance	3/1/2031	4/30/2031	6	52	20	2031	Water	3	3	0.10	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	2030	Water	3	3	0.10	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	2032	Water	3	3	0.10	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27

Sepulveda Transit Corridor Project - ALTERNATIVE 5

WATER TRUCKS (ONSITE)

											Non-Running Emission Factor (g/trip)[1,3]													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	2028	Water	3	3	0.10	0.19	4.54	2.98	0.00	-	0.00	0.00	-	0.00	0.00	475.0	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	2029	Water	3	3	0.10	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	2029	Water	3	3	0.10	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	2029	Water	3	3	0.10	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	2029	Water	-	-	0.10	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	2030	Water	-	-	0.10	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	2032	Water	-	-	0.10	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.6	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	4/15/2030	6/11/2032	7	789	20	2030	Water	-	-	0.10	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	6/12/2032	11/28/2033	7	535	20	2032	Water	-	-	0.10	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.6	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	12/1/2033	7/13/2034	7	225	20	2033	Water	-	-	0.10	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.3	0.01	0.07
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Water	3	3	0.10	0.19	4.54	2.98	0.00	-	0.00	0.00	-	0.00	0.00	475.0	0.01	0.07
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	2029	Water	-	-	0.10	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	2033	Water	-	-	0.10	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.3	0.01	0.07
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	3/1/2029	2/14/2033	7	1447	20	2029	Water	-	-	0.10	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Slabs, Walkways, Plenum	8/23/2032	12/14/2034	7	844	20	2032	Water	-	-	0.10	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.6	0.01	0.07
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	2034	Water	-	-	0.10	0.19	4.15	3.04	0.00	-	0.00	0.00	-	0.00	0.00	447.6	0.01	0.07
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	2027	Water	3	3	0.10	0.19	4.64	2.98	0.00	-	0.00	0.00	-	0.00	0.00	482.8	0.01	0.08
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	2028	Water	3	3	0.10	0.19	4.54	2.98	0.00	-	0.00	0.00	-	0.00	0.00	475.0	0.01	0.07
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	2028	Water	3	3	0.10	0.19	4.54	2.98	0.00	-	0.00	0.00	-	0.00	0.00	475.0	0.01	0.07
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	2028	Water	3	3	0.10	0.19	4.54	2.98	0.00	-	0.00	0.00	-	0.00	0.00	475.0	0.01	0.07
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Water	3	3	0.10	0.19	4.54	2.98	0.00	-	0.00	0.00	-	0.00	0.00	475.0	0.01	0.07
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	2029	Water	-	-	0.10	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	2032	Water	-	-	0.10	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.6	0.01	0.07
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	4/3/2029	2/19/2032	7	1053	20	2029	Water	-	-	0.10	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Slabs, Walkways, Plenum	9/23/2031	5/18/2033	7	604	20	2031	Water	-	-	0.10	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.6	0.01	0.07
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	2033	Water	-	-	0.10	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.3	0.01	0.07
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	2030	Water	3	3	0.10	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	2030	Water	3	3	0.10	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	2030	Water	3	3	0.10	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	2031	Water	3	3	0.10	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.6	0.01	0.07
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Water	3	3	0.10	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.6	0.01	0.07
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	2029	Water	3	3	0.10	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	2030	Water	3	3	0.10	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	2030	Water	3	3	0.10	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	10/29/2030	12/24/2030	6	49	20	2030	Water	3	3	0.10	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	2030	Water	3	3	0.10	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	12/20/2031	1/20/2032	6	27	20	2031	Water	3	3	0.10	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.6	0.01	0.07
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	2032	Water	3	3	0.10	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.6	0.01	0.07
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Water	3	3	0.10	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.6	0.01	0.07
Segment 6-Reach 3 Portal to MSF-Paving	7/19/2032	7/14/2033	6	310	20	2032	Water	3	3	0.10	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.6	0.01	0.07
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Water	3	3	0.10	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	2030	Water	3	3	0.10	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	2030	Water	3	3	0.10	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	2030	Water	3	3	0.10	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	2030	Water	3	3	0.10	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Water	3	3	0.10	0.19	4.64	2.98	0.00	-	0.00	0.00	-	0.00	0.00	482.8	0.01	0.08
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Water	3	3	0.10	0.19	4.54	2.98	0.00	-	0.00	0.00	-	0.00	0.00	475.0	0.01	0.07
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	2029	Water	3	3	0.10	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
Metro E Line Stn_U-Alt5-TBM Pass Through-Maintenance	8/1/2030	9/30/2030	6	52	20	2030	Water	3	3	0.10	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	2030	Water	-	-	0.10	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	2031	Water	-	-	0.10	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.6	0.01	0.07
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	2034	Water	-	-	0.10	0.19	4.15	3.04	0.00	-	0.00	0.00	-	0.00	0.00	447.6	0.01	0.07
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	2028	Water	3	3	0.10	0.19	4.54	2.98	0.00	-	0.00	0.00	-	0.00	0.00	475.0	0.01	0.07
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	2029	Water	3	3	0.10	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	2029	Water	3	3	0.10	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
Santa Monica Stn_U-Alt5-TBM Pass Through-Maintenance	3/1/2031	4/30/2031	6	52	20	2031	Water	3	3	0.10	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.6	0.01	0.07
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	2030	Water	3	3	0.10	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	2032	Water	3	3	0.10	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.6	0.01	0.07

Sepulveda Transit Corridor Project - ALTERNATIVE 5

WATER TRUCKS (ONSITE)

											Daily Emissions (lb/day)												
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Hours per Workday**	**EF Year**	**Trip Type**	**Round Trips per Day**	**Daily Onsite Trips**	**One-Way Trip Length (mi)**	**ROG**	**NO_X**	**CO**	**SO_X**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**	**CO_2**	**CH_4**	**N_2O**
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	2028	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	2029	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	2029	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	2029	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	2029	Water	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	2030	Water	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	2032	Water	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	4/15/2030	6/11/2032	7	789	20	2030	Water	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	6/12/2032	11/28/2033	7	535	20	2032	Water	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	12/1/2033	7/13/2034	7	225	20	2033	Water	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	2029	Water	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	2033	Water	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	3/1/2029	2/14/2033	7	1447	20	2029	Water	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Slabs, Walkways, Plenum	8/23/2032	12/14/2034	7	844	20	2032	Water	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	2034	Water	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	2027	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	2028	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	2028	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	2028	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	2029	Water	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	2032	Water	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	4/3/2029	2/19/2032	7	1053	20	2029	Water	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Slabs, Walkways, Plenum	9/23/2031	5/18/2033	7	604	20	2031	Water	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	2033	Water	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	2030	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	2030	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	2030	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	2031	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	2029	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	2030	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	2030	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	10/29/2030	12/24/2030	6	49	20	2030	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	2030	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	12/20/2031	1/20/2032	6	27	20	2031	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	2032	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
Segment 6-Reach 3 Portal to MSF-Paving	7/19/2032	7/14/2033	6	310	20	2032	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	2030	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	2030	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	2030	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	2030	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	2029	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
Metro E Line Stn_U-Alt5-TBM Pass Through-Maintenance	8/1/2030	9/30/2030	6	52	20	2030	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	2030	Water	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	2031	Water	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	2034	Water	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	2028	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	2029	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	2029	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
Santa Monica Stn_U-Alt5-TBM Pass Through-Maintenance	3/1/2031	4/30/2031	6	52	20	2031	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	2030	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	2032	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 5

WATER TRUCKS (ONSITE)

											Total Emissions (tons)											Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	2028	Water	3	3	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	2029	Water	3	3	0.10	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	2029	Water	3	3	0.10	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	2029	Water	3	3	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	2029	Water	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	2030	Water	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	2032	Water	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	4/15/2030	6/11/2032	7	789	20	2030	Water	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	6/12/2032	11/28/2033	7	535	20	2032	Water	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	12/1/2033	7/13/2034	7	225	20	2033	Water	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Water	3	3	0.10	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.3
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	2029	Water	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	2033	Water	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	3/1/2029	2/14/2033	7	1447	20	2029	Water	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Slabs, Walkways, Plenum	8/23/2032	12/14/2034	7	844	20	2032	Water	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	2034	Water	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	2027	Water	3	3	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	2028	Water	3	3	0.10	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	2028	Water	3	3	0.10	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	2028	Water	3	3	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Water	3	3	0.10	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.3
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	2029	Water	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	2032	Water	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	4/3/2029	2/19/2032	7	1053	20	2029	Water	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Slabs, Walkways, Plenum	9/23/2031	5/18/2033	7	604	20	2031	Water	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	2033	Water	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	2030	Water	3	3	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.2
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	2030	Water	3	3	0.10	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	2030	Water	3	3	0.10	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.5	0.00	0.00	0.5
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	2031	Water	3	3	0.10	0.00	0.01	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.7	0.00	0.00	0.7
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Water	3	3	0.10	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	2029	Water	3	3	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	2030	Water	3	3	0.10	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.5
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	2030	Water	3	3	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	10/29/2030	12/24/2030	6	49	20	2030	Water	3	3	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	2030	Water	3	3	0.10	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.6	0.00	0.00	0.6
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	12/20/2031	1/20/2032	6	27	20	2031	Water	3	3	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	2032	Water	3	3	0.10	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.5
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Water	3	3	0.10	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
Segment 6-Reach 3 Portal to MSF-Paving	7/19/2032	7/14/2033	6	310	20	2032	Water	3	3	0.10	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.6	0.00	0.00	0.6
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Water	3	3	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	2030	Water	3	3	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	2030	Water	3	3	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	2030	Water	3	3	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.1
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	2030	Water	3	3	0.10	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.6	0.00	0.00	0.6
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Water	3	3	0.10	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Water	3	3	0.10	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.5	0.00	0.00	0.5
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	2029	Water	3	3	0.10	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.6	0.00	0.00	0.6
Metro E Line Stn_U-Alt5-TBM Pass Through-Maintenance	8/1/2030	9/30/2030	6	52	20	2030	Water	3	3	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	2030	Water	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	2031	Water	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	2034	Water	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	2028	Water	3	3	0.10	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	2029	Water	3	3	0.10	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.5	0.00	0.00	0.5
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	2029	Water	3	3	0.10	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.6	0.00	0.00	0.6
Santa Monica Stn_U-Alt5-TBM Pass Through-Maintenance	3/1/2031	4/30/2031	6	52	20	2031	Water	3	3	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	2030	Water	3	3	0.10	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	1.2	0.00	0.00	1.2
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	2032	Water	3	3	0.10	0.00	0.01	0.01	0.00	0.05	0.00	0.05	0.00	0.00	0.00	1.4	0.00	0.00	1.5

Sepulveda Transit Corridor Project - ALTERNATIVE 5

WATER TRUCKS (ONSITE)

											Running Emission Factor (g/mile)[1,2,4]													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	2029	Water	3	3	0.10	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	2030	Water	3	3	0.10	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	2030	Water	3	3	0.10	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
D Line Wilshire-Westwood Stn_U-Alt5-TBM Pass Through-Maintenance	10/1/2031	11/30/2031	6	52	20	2031	Water	3	3	0.10	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	2031	Water	3	3	0.10	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	2033	Water	3	3	0.10	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	2028	Water	3	3	0.10	0.02	2.97	0.24	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1781.8	0.00	0.28
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	2029	Water	3	3	0.10	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	2029	Water	3	3	0.10	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	2031	Water	-	-	0.10	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	2033	Water	-	-	0.10	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	2033	Water	-	-	0.10	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	2026	Water	3	3	0.10	0.02	3.05	0.25	0.02	184.05	0.00	184.05	18.37	0.00	18.37	1833.8	0.00	0.29
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	2026	Water	3	3	0.10	0.02	3.05	0.25	0.02	184.05	0.00	184.05	18.37	0.00	18.37	1833.8	0.00	0.29
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	2027	Water	3	3	0.10	0.02	3.01	0.24	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1807.4	0.00	0.28
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	2028	Water	3	3	0.10	0.02	2.97	0.24	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1781.8	0.00	0.28
Ventura Blvd Stn_U-Alt5-Mobilize/Launch Reach 2 TBM	10/1/2028	1/30/2029	7	122	20	2028	Water	3	3	0.10	0.02	2.97	0.24	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1781.8	0.00	0.28
Ventura Blvd Stn_U-Alt5-Retrieve/Demob Reach 3 TBM	2/19/2032	5/18/2032	7	90	20	2032	Water	3	3	0.10	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	2031	Water	3	3	0.10	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	2033	Water	3	3	0.10	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	2035	Water	3	3	0.10	0.02	2.76	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1639.3	0.00	0.26
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	2027	Water	3	3	0.10	0.02	3.01	0.24	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1807.4	0.00	0.28
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	2027	Water	3	3	0.10	0.02	3.01	0.24	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1807.4	0.00	0.28
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	2029	Water	3	3	0.10	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Sepulveda-Metro G Line Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2030	10/31/2030	6	52	20	2030	Water	3	3	0.10	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	2030	Water	3	3	0.10	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	2031	Water	3	3	0.10	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	2026	Water	3	3	0.10	0.02	3.05	0.25	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1833.8	0.00	0.29
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	2027	Water	3	3	0.10	0.02	3.01	0.24	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1807.4	0.00	0.28
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	2028	Water	3	3	0.10	0.02	2.97	0.24	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1781.8	0.00	0.28
Sherman Way Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2029	10/31/2029	6	52	10	2029	Water	3	3	0.10	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	2029	Water	3	3	0.10	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	2030	Water	3	3	0.10	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	2033	Water	3	3	0.10	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	2029	Water	3	3	0.10	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	2030	Water	3	3	0.10	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	2030	Water	3	3	0.10	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	2031	Water	3	3	0.10	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	2032	Water	3	3	0.10	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Water	3	3	0.10	0.02	2.78	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1655.8	0.00	0.26
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Water	3	3	0.10	0.02	2.78	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1655.8	0.00	0.26
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Water	3	3	0.10	0.02	2.78	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1655.8	0.00	0.26
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Water	3	3	0.10	0.02	2.78	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1655.8	0.00	0.26
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Water	3	3	0.10	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Water	3	3	0.10	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Water	3	3	0.10	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Water	3	3	0.10	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Water	3	3	0.10	0.02	2.78	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1655.8	0.00	0.26
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Water	3	3	0.10	0.02	2.78	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1655.8	0.00	0.26
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Water	3	3	0.10	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	2028	Water	3	3	0.10	0.02	2.97	0.24	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1781.8	0.00	0.28
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Water	3	3	0.10	0.02	2.97	0.24	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1781.8	0.00	0.28
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Water	3	3	0.10	0.02	2.97	0.24	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1781.8	0.00	0.28

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** Heavy Duty-Mix (50% MHDT/50% HHDT); **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 5

WATER TRUCKS (ONSITE)

											Non-Running Emission Factor (g/trip)[1,3]													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	2029	Water	3	3	0.10	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	2030	Water	3	3	0.10	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	2030	Water	3	3	0.10	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
D Line Wilshire-Westwood Stn_U-Alt5-TBM Pass Through-Maintenance	10/1/2031	11/30/2031	6	52	20	2031	Water	3	3	0.10	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.6	0.01	0.07
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	2031	Water	3	3	0.10	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.6	0.01	0.07
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	2033	Water	3	3	0.10	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.3	0.01	0.07
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	2028	Water	3	3	0.10	0.19	4.54	2.98	0.00	-	0.00	0.00	-	0.00	0.00	475.0	0.01	0.07
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	2029	Water	3	3	0.10	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	2029	Water	3	3	0.10	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	2031	Water	-	-	0.10	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.6	0.01	0.07
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	2033	Water	-	-	0.10	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.3	0.01	0.07
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	2033	Water	-	-	0.10	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.3	0.01	0.07
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	2026	Water	3	3	0.10	0.19	4.72	2.98	0.00	-	0.00	0.00	-	0.00	0.00	491.0	0.01	0.08
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	2026	Water	3	3	0.10	0.19	4.72	2.98	0.00	-	0.00	0.00	-	0.00	0.00	491.0	0.01	0.08
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	2027	Water	3	3	0.10	0.19	4.64	2.98	0.00	-	0.00	0.00	-	0.00	0.00	482.8	0.01	0.08
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	2028	Water	3	3	0.10	0.19	4.54	2.98	0.00	-	0.00	0.00	-	0.00	0.00	475.0	0.01	0.07
Ventura Blvd Stn_U-Alt5-Mobilize/Launch Reach 2 TBM	10/1/2028	1/30/2029	7	122	20	2028	Water	3	3	0.10	0.19	4.54	2.98	0.00	-	0.00	0.00	-	0.00	0.00	475.0	0.01	0.07
Ventura Blvd Stn_U-Alt5-Retrieve/Demob Reach 3 TBM	2/19/2032	5/18/2032	7	90	20	2032	Water	3	3	0.10	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.6	0.01	0.07
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	2031	Water	3	3	0.10	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.6	0.01	0.07
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	2033	Water	3	3	0.10	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.3	0.01	0.07
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	2035	Water	3	3	0.10	0.19	4.12	3.05	0.00	-	0.00	0.00	-	0.00	0.00	445.5	0.01	0.07
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	2027	Water	3	3	0.10	0.19	4.64	2.98	0.00	-	0.00	0.00	-	0.00	0.00	482.8	0.01	0.08
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	2027	Water	3	3	0.10	0.19	4.64	2.98	0.00	-	0.00	0.00	-	0.00	0.00	482.8	0.01	0.08
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	2029	Water	3	3	0.10	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
Sepulveda-Metro G Line Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2030	10/31/2030	6	52	20	2030	Water	3	3	0.10	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	2030	Water	3	3	0.10	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	2031	Water	3	3	0.10	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.6	0.01	0.07
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	2026	Water	3	3	0.10	0.19	4.72	2.98	0.00	-	0.00	0.00	-	0.00	0.00	491.0	0.01	0.08
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	2027	Water	3	3	0.10	0.19	4.64	2.98	0.00	-	0.00	0.00	-	0.00	0.00	482.8	0.01	0.08
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	2028	Water	3	3	0.10	0.19	4.54	2.98	0.00	-	0.00	0.00	-	0.00	0.00	475.0	0.01	0.07
Sherman Way Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2029	10/31/2029	6	52	10	2029	Water	3	3	0.10	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	2029	Water	3	3	0.10	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	2030	Water	3	3	0.10	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	2033	Water	3	3	0.10	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.3	0.01	0.07
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	2029	Water	3	3	0.10	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	2030	Water	3	3	0.10	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	2030	Water	3	3	0.10	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	2031	Water	3	3	0.10	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.6	0.01	0.07
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	2032	Water	3	3	0.10	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.6	0.01	0.07
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Water	3	3	0.10	0.19	4.15	3.04	0.00	-	0.00	0.00	-	0.00	0.00	447.6	0.01	0.07
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Water	3	3	0.10	0.19	4.15	3.04	0.00	-	0.00	0.00	-	0.00	0.00	447.6	0.01	0.07
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Water	3	3	0.10	0.19	4.15	3.04	0.00	-	0.00	0.00	-	0.00	0.00	447.6	0.01	0.07
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Water	3	3	0.10	0.19	4.15	3.04	0.00	-	0.00	0.00	-	0.00	0.00	447.6	0.01	0.07
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Water	3	3	0.10	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.6	0.01	0.07
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Water	3	3	0.10	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.6	0.01	0.07
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Water	3	3	0.10	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.6	0.01	0.07
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Water	3	3	0.10	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.6	0.01	0.07
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Water	3	3	0.10	0.19	4.15	3.04	0.00	-	0.00	0.00	-	0.00	0.00	447.6	0.01	0.07
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Water	3	3	0.10	0.19	4.15	3.04	0.00	-	0.00	0.00	-	0.00	0.00	447.6	0.01	0.07
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Water	3	3	0.10	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.6	0.01	0.07
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	2028	Water	3	3	0.10	0.19	4.54	2.98	0.00	-	0.00	0.00	-	0.00	0.00	475.0	0.01	0.07
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Water	3	3	0.10	0.19	4.54	2.98	0.00	-	0.00	0.00	-	0.00	0.00	475.0	0.01	0.07
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Water	3	3	0.10	0.19	4.54	2.98	0.00	-	0.00	0.00	-	0.00	0.00	475.0	0.01	0.07

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** Heavy Duty-Mix (50% MHDT/50% HHDT); **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 5

WATER TRUCKS (ONSITE)

											Daily Emissions (lb/day)													
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Hours per Workday**	**EF Year**	**Trip Type**	**Round Trips per Day**	**Daily Onsite Trips**	**One-Way Trip Length (mi)**	**ROG**	**NO_X**	**CO**	**SO_X**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**	**CO_2**	**CH_4**	**N_2O**
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	2029	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	2030	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	2030	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
D Line Wilshire-Westwood Stn_U-Alt5-TBM Pass Through-Maintenance	10/1/2031	11/30/2031	6	52	20	2031	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	2031	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	2033	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	2028	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	2029	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	2029	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	2031	Water	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	2033	Water	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	2033	Water	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	2026	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	2026	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	2027	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	2028	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
Ventura Blvd Stn_U-Alt5-Mobilize/Launch Reach 2 TBM	10/1/2028	1/30/2029	7	122	20	2028	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
Ventura Blvd Stn_U-Alt5-Retrieve/Demob Reach 3 TBM	2/19/2032	5/18/2032	7	90	20	2032	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	2031	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	2033	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	2035	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	2027	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	2027	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	2029	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
Sepulveda-Metro G Line Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2030	10/31/2030	6	52	20	2030	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	2030	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	2031	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	2026	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	2027	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	2028	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
Sherman Way Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2029	10/31/2029	6	52	10	2029	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	2029	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	2030	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	2033	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	2029	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	2030	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	2030	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	2031	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	2032	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	2028	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4	0.00	0.00

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** Heavy Duty-Mix (50% MHDT/50% HHDT); **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
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3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 5

WATER TRUCKS (ONSITE)

											Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	2029	Water	3	3	0.10	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	2030	Water	3	3	0.10	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.5	0.00	0.00	0.5
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	2030	Water	3	3	0.10	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.6	0.00	0.00	0.6
D Line Wilshire-Westwood Stn_U-Alt5-TBM Pass Through-Maintenance	10/1/2031	11/30/2031	6	52	20	2031	Water	3	3	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	2031	Water	3	3	0.10	0.00	0.01	0.01	0.00	0.03	0.00	0.03	0.00	0.00	0.00	1.0	0.00	0.00	1.1
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	2033	Water	3	3	0.10	0.00	0.01	0.01	0.00	0.05	0.00	0.05	0.00	0.00	0.00	1.4	0.00	0.00	1.5
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	2028	Water	3	3	0.10	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	2029	Water	3	3	0.10	0.00	0.01	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.7	0.00	0.00	0.7
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	2029	Water	3	3	0.10	0.00	0.01	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.8	0.00	0.00	0.8
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	2031	Water	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	2033	Water	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	2033	Water	-	-	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	2026	Water	3	3	0.10	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	2026	Water	3	3	0.10	0.00	0.01	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.7	0.00	0.00	0.7
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	2027	Water	3	3	0.10	0.00	0.01	0.00	0.00	0.03	0.00	0.03	0.00	0.00	0.00	0.8	0.00	0.00	0.9
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	2028	Water	3	3	0.10	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Ventura Blvd Stn_U-Alt5-Mobilize/Launch Reach 2 TBM	10/1/2028	1/30/2029	7	122	20	2028	Water	3	3	0.10	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.3
Ventura Blvd Stn_U-Alt5-Retrieve/Demob Reach 3 TBM	2/19/2032	5/18/2032	7	90	20	2032	Water	3	3	0.10	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	2031	Water	3	3	0.10	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	1.2	0.00	0.00	1.2
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	2033	Water	3	3	0.10	0.00	0.01	0.01	0.00	0.05	0.00	0.05	0.00	0.00	0.00	1.4	0.00	0.00	1.5
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	2035	Water	3	3	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	2027	Water	3	3	0.10	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	2027	Water	3	3	0.10	0.00	0.01	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.7	0.00	0.00	0.8
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	2029	Water	3	3	0.10	0.00	0.01	0.00	0.00	0.03	0.00	0.03	0.00	0.00	0.00	0.8	0.00	0.00	0.8
Sepulveda-Metro G Line Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2030	10/31/2030	6	52	20	2030	Water	3	3	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	2030	Water	3	3	0.10	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	1.2	0.00	0.00	1.2
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	2031	Water	3	3	0.10	0.00	0.01	0.01	0.00	0.05	0.00	0.05	0.00	0.00	0.00	1.5	0.00	0.00	1.5
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	2026	Water	3	3	0.10	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	2027	Water	3	3	0.10	0.00	0.01	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.7	0.00	0.00	0.8
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	2028	Water	3	3	0.10	0.00	0.01	0.00	0.00	0.03	0.00	0.03	0.00	0.00	0.00	0.8	0.00	0.00	0.9
Sherman Way Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2029	10/31/2029	6	52	10	2029	Water	3	3	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	2029	Water	3	3	0.10	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	1.2	0.00	0.00	1.3
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	2030	Water	3	3	0.10	0.00	0.01	0.01	0.00	0.05	0.00	0.05	0.00	0.00	0.00	1.5	0.00	0.00	1.5
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	2033	Water	3	3	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	2029	Water	3	3	0.10	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	2030	Water	3	3	0.10	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	2030	Water	3	3	0.10	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.5	0.00	0.00	0.5
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	2031	Water	3	3	0.10	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	1.1	0.00	0.00	1.1
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	2032	Water	3	3	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Water	3	3	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Water	3	3	0.10	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.2
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Water	3	3	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.0
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Water	3	3	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.0
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Water	3	3	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.2
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Water	3	3	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Water	3	3	0.10	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.3
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Water	3	3	0.10	0.00	0.01	0.01	0.00	0.05	0.00	0.05	0.00	0.00	0.00	1.5	0.00	0.00	1.5
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Water	3	3	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Water	3	3	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.2
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Water	3	3	0.10	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	1.2	0.00	0.00	1.2
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	2028	Water	3	3	0.10	0.00	0.03	0.02	0.00	0.10	0.00	0.10	0.01	0.00	0.01	3.1	0.00	0.00	3.2
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Water	3	3	0.10	0.00	0.05	0.03	0.00	0.18	0.00	0.18	0.02	0.00	0.02	5.8	0.00	0.00	6.1
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Water	3	3	0.10	0.00	0.04	0.02	0.00	0.15	0.00	0.15	0.02	0.00	0.02	4.9	0.00	0.00	5.1

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** Heavy Duty-Mix (50% MHDT/50% HHDT); **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 5

WATER TRUCKS (OFFSITE)

										Running Emission Factor (g/mile)[1,2,4]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	2028	Water	3	6	2.00	0.01	0.91	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1267.9	0.00	0.20
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	2029	Water	3	6	2.00	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	2029	Water	3	6	2.00	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	2029	Water	3	6	2.00	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	2029	Water	-	-	2.00	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	2030	Water	-	-	2.00	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	2032	Water	-	-	2.00	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	4/15/2030	6/11/2032	7	789	20	2030	Water	-	-	2.00	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	6/12/2032	11/28/2033	7	535	20	2032	Water	-	-	2.00	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	12/1/2033	7/13/2034	7	225	20	2033	Water	-	-	2.00	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Water	3	6	2.00	0.01	0.91	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1267.9	0.00	0.20
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	2029	Water	-	-	2.00	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	2033	Water	-	-	2.00	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	3/1/2029	2/14/2033	7	1447	20	2029	Water	-	-	2.00	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Slabs, Walkways, Plenum	8/23/2032	12/14/2034	7	844	20	2032	Water	-	-	2.00	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	2034	Water	-	-	2.00	0.01	0.81	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1192.3	0.00	0.19
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	2027	Water	3	6	2.00	0.01	0.93	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1282.2	0.00	0.20
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	2028	Water	3	6	2.00	0.01	0.91	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1267.9	0.00	0.20
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	2028	Water	3	6	2.00	0.01	0.91	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1267.9	0.00	0.20
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	2028	Water	3	6	2.00	0.01	0.91	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1267.9	0.00	0.20
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Water	3	6	2.00	0.01	0.91	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1267.9	0.00	0.20
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	2029	Water	-	-	2.00	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	2032	Water	-	-	2.00	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	4/3/2029	2/19/2032	7	1053	20	2029	Water	-	-	2.00	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Slabs, Walkways, Plenum	9/23/2031	5/18/2033	7	604	20	2031	Water	-	-	2.00	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	2033	Water	-	-	2.00	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	2030	Water	3	6	2.00	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	2030	Water	3	6	2.00	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	2030	Water	3	6	2.00	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	2031	Water	3	6	2.00	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Water	3	6	2.00	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	2029	Water	3	6	2.00	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	2030	Water	3	6	2.00	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	2030	Water	3	6	2.00	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	10/29/2030	12/24/2030	6	49	20	2030	Water	3	6	2.00	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	2030	Water	3	6	2.00	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	12/20/2031	1/20/2032	6	27	20	2031	Water	3	6	2.00	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	2032	Water	3	6	2.00	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Water	3	6	2.00	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Segment 6-Reach 3 Portal to MSF-Paving	7/19/2032	7/14/2033	6	310	20	2032	Water	3	6	3.00	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Water	3	6	2.00	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	2030	Water	3	6	2.00	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	2030	Water	3	6	2.00	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	2030	Water	3	6	2.00	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	2030	Water	3	6	2.00	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Water	3	6	2.00	0.01	0.93	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1282.2	0.00	0.20
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Water	3	6	2.00	0.01	0.91	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1267.9	0.00	0.20
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	2029	Water	3	6	2.00	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Metro E Line Stn_U-Alt5-TBM Pass Through-Maintenance	8/1/2030	9/30/2030	6	52	20	2030	Water	3	6	2.00	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	2030	Water	-	-	2.00	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	2031	Water	-	-	2.00	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	2034	Water	-	-	2.00	0.01	0.81	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1192.3	0.00	0.19
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	2028	Water	3	6	2.00	0.01	0.91	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1267.9	0.00	0.20
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	2029	Water	3	6	2.00	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	2029	Water	3	6	2.00	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Santa Monica Stn_U-Alt5-TBM Pass Through-Maintenance	3/1/2031	4/30/2031	6	52	20	2031	Water	3	6	2.00	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	2030	Water	3	6	2.00	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	2032	Water	3	6	2.00	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19

Sepulveda Transit Corridor Project - ALTERNATIVE 5

WATER TRUCKS (OFFSITE)

										Non-Running Emission Factor (g/trip)[1,3]													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	2028	Water	3	6	2.00	0.19	4.54	2.98	0.00	-	0.00	0.00	-	0.00	0.00	475.0	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	2029	Water	3	6	2.00	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	2029	Water	3	6	2.00	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	2029	Water	3	6	2.00	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	2029	Water	-	-	2.00	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	2030	Water	-	-	2.00	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	2032	Water	-	-	2.00	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.6	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	4/15/2030	6/11/2032	7	789	20	2030	Water	-	-	2.00	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	6/12/2032	11/28/2033	7	535	20	2032	Water	-	-	2.00	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.6	0.01	0.07
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	12/1/2033	7/13/2034	7	225	20	2033	Water	-	-	2.00	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.3	0.01	0.07
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Water	3	6	2.00	0.19	4.54	2.98	0.00	-	0.00	0.00	-	0.00	0.00	475.0	0.01	0.07
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	2029	Water	-	-	2.00	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	2033	Water	-	-	2.00	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.3	0.01	0.07
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	3/1/2029	2/14/2033	7	1447	20	2029	Water	-	-	2.00	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Slabs, Walkways, Plenum	8/23/2032	12/14/2034	7	844	20	2032	Water	-	-	2.00	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.6	0.01	0.07
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	2034	Water	-	-	2.00	0.19	4.15	3.04	0.00	-	0.00	0.00	-	0.00	0.00	447.6	0.01	0.07
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	2027	Water	3	6	2.00	0.19	4.64	2.98	0.00	-	0.00	0.00	-	0.00	0.00	482.8	0.01	0.08
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	2028	Water	3	6	2.00	0.19	4.54	2.98	0.00	-	0.00	0.00	-	0.00	0.00	475.0	0.01	0.07
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	2028	Water	3	6	2.00	0.19	4.54	2.98	0.00	-	0.00	0.00	-	0.00	0.00	475.0	0.01	0.07
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	2028	Water	3	6	2.00	0.19	4.54	2.98	0.00	-	0.00	0.00	-	0.00	0.00	475.0	0.01	0.07
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Water	3	6	2.00	0.19	4.54	2.98	0.00	-	0.00	0.00	-	0.00	0.00	475.0	0.01	0.07
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	2029	Water	-	-	2.00	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	2032	Water	-	-	2.00	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.6	0.01	0.07
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	4/3/2029	2/19/2032	7	1053	20	2029	Water	-	-	2.00	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Slabs, Walkways, Plenum	9/23/2031	5/18/2033	7	604	20	2031	Water	-	-	2.00	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.6	0.01	0.07
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	2033	Water	-	-	2.00	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.3	0.01	0.07
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	2030	Water	3	6	2.00	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	2030	Water	3	6	2.00	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	2030	Water	3	6	2.00	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	2031	Water	3	6	2.00	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.6	0.01	0.07
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Water	3	6	2.00	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.6	0.01	0.07
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	2029	Water	3	6	2.00	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	2030	Water	3	6	2.00	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	2030	Water	3	6	2.00	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	10/29/2030	12/24/2030	6	49	20	2030	Water	3	6	2.00	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	2030	Water	3	6	2.00	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	12/20/2031	1/20/2032	6	27	20	2031	Water	3	6	2.00	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.6	0.01	0.07
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	2032	Water	3	6	2.00	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.6	0.01	0.07
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Water	3	6	2.00	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.6	0.01	0.07
Segment 6-Reach 3 Portal to MSF-Paving	7/19/2032	7/14/2033	6	310	20	2032	Water	3	6	3.00	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.6	0.01	0.07
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Water	3	6	2.00	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	2030	Water	3	6	2.00	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	2030	Water	3	6	2.00	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	2030	Water	3	6	2.00	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	2030	Water	3	6	2.00	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Water	3	6	2.00	0.19	4.64	2.98	0.00	-	0.00	0.00	-	0.00	0.00	482.8	0.01	0.08
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Water	3	6	2.00	0.19	4.54	2.98	0.00	-	0.00	0.00	-	0.00	0.00	475.0	0.01	0.07
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	2029	Water	3	6	2.00	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
Metro E Line Stn_U-Alt5-TBM Pass Through-Maintenance	8/1/2030	9/30/2030	6	52	20	2030	Water	3	6	2.00	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	2030	Water	-	-	2.00	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	2031	Water	-	-	2.00	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.6	0.01	0.07
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	2034	Water	-	-	2.00	0.19	4.15	3.04	0.00	-	0.00	0.00	-	0.00	0.00	447.6	0.01	0.07
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	2028	Water	3	6	2.00	0.19	4.54	2.98	0.00	-	0.00	0.00	-	0.00	0.00	475.0	0.01	0.07
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	2029	Water	3	6	2.00	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	2029	Water	3	6	2.00	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
Santa Monica Stn_U-Alt5-TBM Pass Through-Maintenance	3/1/2031	4/30/2031	6	52	20	2031	Water	3	6	2.00	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.6	0.01	0.07
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	2030	Water	3	6	2.00	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	2032	Water	3	6	2.00	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.6	0.01	0.07

Sepulveda Transit Corridor Project - ALTERNATIVE 5

WATER TRUCKS (OFFSITE)

										Daily Emissions (lb/day)												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	2028	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	40	0.00	0.01
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	2029	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	2029	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	2029	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	2029	Water	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	2030	Water	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	2032	Water	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	4/15/2030	6/11/2032	7	789	20	2030	Water	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	6/12/2032	11/28/2033	7	535	20	2032	Water	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	12/1/2033	7/13/2034	7	225	20	2033	Water	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	40	0.00	0.01
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	2029	Water	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	2033	Water	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	3/1/2029	2/14/2033	7	1447	20	2029	Water	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Slabs, Walkways, Plenum	8/23/2032	12/14/2034	7	844	20	2032	Water	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	2034	Water	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	2027	Water	3	6	2.00	0.00	0.09	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	40	0.00	0.01
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	2028	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	40	0.00	0.01
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	2028	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	40	0.00	0.01
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	2028	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	40	0.00	0.01
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	40	0.00	0.01
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	2029	Water	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	2032	Water	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	4/3/2029	2/19/2032	7	1053	20	2029	Water	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Slabs, Walkways, Plenum	9/23/2031	5/18/2033	7	604	20	2031	Water	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	2033	Water	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	2030	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	2030	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	2030	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	2031	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	2029	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	2030	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	2030	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	10/29/2030	12/24/2030	6	49	20	2030	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	2030	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	12/20/2031	1/20/2032	6	27	20	2031	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	2032	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
Segment 6-Reach 3 Portal to MSF-Paving	7/19/2032	7/14/2033	6	310	20	2032	Water	3	6	3.00	0.00	0.09	0.04	0.00	0.02	0.00	0.02	0.00	0.00	0.00	54	0.00	0.01
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	2030	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	2030	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	2030	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	2030	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Water	3	6	2.00	0.00	0.09	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	40	0.00	0.01
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	40	0.00	0.01
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	2029	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
Metro E Line Stn_U-Alt5-TBM Pass Through-Maintenance	8/1/2030	9/30/2030	6	52	20	2030	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	2030	Water	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	2031	Water	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	2034	Water	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	2028	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	40	0.00	0.01
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	2029	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	2029	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
Santa Monica Stn_U-Alt5-TBM Pass Through-Maintenance	3/1/2031	4/30/2031	6	52	20	2031	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	2030	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	2032	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01

Sepulveda Transit Corridor Project - ALTERNATIVE 5

WATER TRUCKS (OFFSITE)

										Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	2028	Water	3	6	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.4	0.00	0.00	1.5
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	2029	Water	3	6	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.8	0.00	0.00	1.9
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	2029	Water	3	6	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.9	0.00	0.00	1.9
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	2029	Water	3	6	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.0	0.00	0.00	1.0
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	2029	Water	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	2030	Water	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	2032	Water	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	4/15/2030	6/11/2032	7	789	20	2030	Water	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	6/12/2032	11/28/2033	7	535	20	2032	Water	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	12/1/2033	7/13/2034	7	225	20	2033	Water	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Water	3	6	2.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.2	0.00	0.00	2.3
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	2029	Water	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	2033	Water	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	3/1/2029	2/14/2033	7	1447	20	2029	Water	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Slabs, Walkways, Plenum	8/23/2032	12/14/2034	7	844	20	2032	Water	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	2034	Water	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	2027	Water	3	6	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.4	0.00	0.00	1.5
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	2028	Water	3	6	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.9	0.00	0.00	1.9
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	2028	Water	3	6	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.9	0.00	0.00	2.0
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	2028	Water	3	6	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.5	0.00	0.00	0.5
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	2028	Water	3	6	2.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.2	0.00	0.00	2.3
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	2029	Water	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	2032	Water	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	4/3/2029	2/19/2032	7	1053	20	2029	Water	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Slabs, Walkways, Plenum	9/23/2031	5/18/2033	7	604	20	2031	Water	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	2033	Water	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	2030	Water	3	6	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.3	0.00	0.00	1.4
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	2030	Water	3	6	2.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.8	0.00	0.00	2.9
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	2030	Water	3	6	2.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.6	0.00	0.00	4.8
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	2031	Water	3	6	2.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.2	0.00	0.00	6.5
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Water	3	6	2.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.7	0.00	0.00	2.8
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	2029	Water	3	6	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.4	0.00	0.00	1.5
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	2030	Water	3	6	2.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.1	0.00	0.00	4.3
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	2030	Water	3	6	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.3	0.00	0.00	1.4
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	10/29/2030	12/24/2030	6	49	20	2030	Water	3	6	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.9	0.00	0.00	0.9
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	2030	Water	3	6	2.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.5	0.00	0.00	5.7
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	12/20/2031	1/20/2032	6	27	20	2031	Water	3	6	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.5	0.00	0.00	0.5
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	2032	Water	3	6	2.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.0	0.00	0.00	4.2
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	2032	Water	3	6	2.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.7	0.00	0.00	2.8
Segment 6-Reach 3 Portal to MSF-Paving	7/19/2032	7/14/2033	6	310	20	2032	Water	3	6	3.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.6	0.00	0.00	8.0
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	2030	Water	3	6	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.0	0.00	0.00	1.0
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	2030	Water	3	6	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.0	0.00	0.00	1.0
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	2030	Water	3	6	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.9	0.00	0.00	1.0
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	2030	Water	3	6	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.5	0.00	0.00	0.5
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	2030	Water	3	6	2.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.7	0.00	0.00	6.0
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	2027	Water	3	6	2.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.8	0.00	0.00	4.0
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	2028	Water	3	6	2.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.7	0.00	0.00	4.9
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	2029	Water	3	6	2.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.7	0.00	0.00	6.0
Metro E Line Stn_U-Alt5-TBM Pass Through-Maintenance	8/1/2030	9/30/2030	6	52	20	2030	Water	3	6	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.9	0.00	0.00	1.0
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	2030	Water	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	2031	Water	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	2034	Water	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	2028	Water	3	6	2.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.7	0.00	0.00	3.9
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	2029	Water	3	6	2.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.7	0.00	0.00	4.9
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	2029	Water	3	6	2.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.6	0.00	0.00	5.8
Santa Monica Stn_U-Alt5-TBM Pass Through-Maintenance	3/1/2031	4/30/2031	6	52	20	2031	Water	3	6	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.9	0.00	0.00	1.0
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	2030	Water	3	6	2.00	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.0	0.00	0.00	11.5
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	2032	Water	3	6	2.00	0.00	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.4	0.00	0.00	14.0

Sepulveda Transit Corridor Project - ALTERNATIVE 5

WATER TRUCKS (OFFSITE)

										Running Emission Factor (g/mile)[1,2,4]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	2029	Water	3	6	2.00	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	2030	Water	3	6	2.00	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	2030	Water	3	6	2.00	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
D Line Wilshire-Westwood Stn_U-Alt5-TBM Pass Through-Maintenance	10/1/2031	11/30/2031	6	52	20	2031	Water	3	6	2.00	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	2031	Water	3	6	2.00	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	2033	Water	3	6	2.00	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	2028	Water	3	6	2.00	0.01	0.91	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1267.9	0.00	0.20
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	2029	Water	3	6	2.00	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	2029	Water	3	6	2.00	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	2031	Water	-	-	2.00	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	2033	Water	-	-	2.00	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	2033	Water	-	-	2.00	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	2026	Water	3	6	2.00	0.01	0.96	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1295.2	0.00	0.20
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	2026	Water	3	6	2.00	0.01	0.96	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1295.2	0.00	0.20
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	2027	Water	3	6	2.00	0.01	0.93	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1282.2	0.00	0.20
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	2028	Water	3	6	2.00	0.01	0.91	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1267.9	0.00	0.20
Ventura Blvd Stn_U-Alt5-Mobilize/Launch Reach 2 TBM	10/1/2028	1/30/2029	7	122	20	2028	Water	3	6	2.00	0.01	0.91	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1267.9	0.00	0.20
Ventura Blvd Stn_U-Alt5-Retrieve/Demob Reach 3 TBM	2/19/2032	5/18/2032	7	90	20	2032	Water	3	6	2.00	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	2031	Water	3	6	2.00	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	2033	Water	3	6	2.00	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	2035	Water	3	6	2.00	0.01	0.79	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1182.1	0.00	0.19
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	2027	Water	3	6	2.00	0.01	0.93	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1282.2	0.00	0.20
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	2027	Water	3	6	2.00	0.01	0.93	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1282.2	0.00	0.20
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	2029	Water	3	6	2.00	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Sepulveda-Metro G Line Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2030	10/31/2030	6	52	20	2030	Water	3	6	2.00	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	2030	Water	3	6	2.00	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	2031	Water	3	6	2.00	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	2026	Water	3	6	2.00	0.01	0.96	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1295.2	0.00	0.20
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	2027	Water	3	6	2.00	0.01	0.93	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1282.2	0.00	0.20
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	2028	Water	3	6	2.00	0.01	0.91	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1267.9	0.00	0.20
Sherman Way Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2029	10/31/2029	6	52	10	2029	Water	3	6	2.00	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	2029	Water	3	6	2.00	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	2030	Water	3	6	2.00	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	2033	Water	3	6	2.00	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	2029	Water	3	6	2.00	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	2030	Water	3	6	2.00	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	2030	Water	3	6	2.00	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	2031	Water	3	6	2.00	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	2032	Water	3	6	2.00	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Water	3	6	2.00	0.01	0.81	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1192.3	0.00	0.19
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Water	3	6	2.00	0.01	0.81	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1192.3	0.00	0.19
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Water	3	6	2.00	0.01	0.81	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1192.3	0.00	0.19
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Water	3	6	2.00	0.01	0.81	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1192.3	0.00	0.19
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Water	3	6	2.00	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Water	3	6	2.00	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Water	3	6	2.00	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Water	3	6	2.00	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Water	3	6	2.00	0.01	0.81	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1192.3	0.00	0.19
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Water	3	6	2.00	0.01	0.81	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1192.3	0.00	0.19
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Water	3	6	2.00	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	2028	Water	3	6	2.00	0.01	0.91	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1267.9	0.00	0.20
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Water	3	6	2.00	0.01	0.91	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1267.9	0.00	0.20
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Water	3	6	2.00	0.01	0.91	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1267.9	0.00	0.20

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate Speeds; **Fleet Mix:100%** HHDT);
Fuel Type: Diesel

2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.

3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 5

WATER TRUCKS (OFFSITE)

										Non-Running Emission Factor (g/trip)[1,3]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	2029	Water	3	6	2.00	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	2030	Water	3	6	2.00	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	2030	Water	3	6	2.00	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
D Line Wilshire-Westwood Stn_U-Alt5-TBM Pass Through-Maintenance	10/1/2031	11/30/2031	6	52	20	2031	Water	3	6	2.00	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.6	0.01	0.07
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	2031	Water	3	6	2.00	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.6	0.01	0.07
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	2033	Water	3	6	2.00	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.3	0.01	0.07
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	2028	Water	3	6	2.00	0.19	4.54	2.98	0.00	-	0.00	0.00	-	0.00	0.00	475.0	0.01	0.07
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	2029	Water	3	6	2.00	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	2029	Water	3	6	2.00	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	2031	Water	-	-	2.00	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.6	0.01	0.07
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	2033	Water	-	-	2.00	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.3	0.01	0.07
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	2033	Water	-	-	2.00	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.3	0.01	0.07
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	2026	Water	3	6	2.00	0.19	4.72	2.98	0.00	-	0.00	0.00	-	0.00	0.00	491.0	0.01	0.08
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	2026	Water	3	6	2.00	0.19	4.72	2.98	0.00	-	0.00	0.00	-	0.00	0.00	491.0	0.01	0.08
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	2027	Water	3	6	2.00	0.19	4.64	2.98	0.00	-	0.00	0.00	-	0.00	0.00	482.8	0.01	0.08
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	2028	Water	3	6	2.00	0.19	4.54	2.98	0.00	-	0.00	0.00	-	0.00	0.00	475.0	0.01	0.07
Ventura Blvd Stn_U-Alt5-Mobilize/Launch Reach 2 TBM	10/1/2028	1/30/2029	7	122	20	2028	Water	3	6	2.00	0.19	4.54	2.98	0.00	-	0.00	0.00	-	0.00	0.00	475.0	0.01	0.07
Ventura Blvd Stn_U-Alt5-Retrieve/Demob Reach 3 TBM	2/19/2032	5/18/2032	7	90	20	2032	Water	3	6	2.00	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.6	0.01	0.07
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	2031	Water	3	6	2.00	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.6	0.01	0.07
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	2033	Water	3	6	2.00	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.3	0.01	0.07
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	2035	Water	3	6	2.00	0.19	4.12	3.05	0.00	-	0.00	0.00	-	0.00	0.00	445.5	0.01	0.07
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	2027	Water	3	6	2.00	0.19	4.64	2.98	0.00	-	0.00	0.00	-	0.00	0.00	482.8	0.01	0.08
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	2027	Water	3	6	2.00	0.19	4.64	2.98	0.00	-	0.00	0.00	-	0.00	0.00	482.8	0.01	0.08
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	2029	Water	3	6	2.00	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
Sepulveda-Metro G Line Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2030	10/31/2030	6	52	20	2030	Water	3	6	2.00	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	2030	Water	3	6	2.00	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	2031	Water	3	6	2.00	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.6	0.01	0.07
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	2026	Water	3	6	2.00	0.19	4.72	2.98	0.00	-	0.00	0.00	-	0.00	0.00	491.0	0.01	0.08
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	2027	Water	3	6	2.00	0.19	4.64	2.98	0.00	-	0.00	0.00	-	0.00	0.00	482.8	0.01	0.08
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	2028	Water	3	6	2.00	0.19	4.54	2.98	0.00	-	0.00	0.00	-	0.00	0.00	475.0	0.01	0.07
Sherman Way Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2029	10/31/2029	6	52	10	2029	Water	3	6	2.00	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	2029	Water	3	6	2.00	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	2030	Water	3	6	2.00	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	2033	Water	3	6	2.00	0.19	4.19	3.02	0.00	-	0.00	0.00	-	0.00	0.00	450.3	0.01	0.07
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	2029	Water	3	6	2.00	0.19	4.43	2.99	0.00	-	0.00	0.00	-	0.00	0.00	468.3	0.01	0.07
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	2030	Water	3	6	2.00	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	2030	Water	3	6	2.00	0.19	4.35	2.99	0.00	-	0.00	0.00	-	0.00	0.00	462.4	0.01	0.07
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	2031	Water	3	6	2.00	0.19	4.29	3.00	0.00	-	0.00	0.00	-	0.00	0.00	457.6	0.01	0.07
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	2032	Water	3	6	2.00	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.6	0.01	0.07
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Water	3	6	2.00	0.19	4.15	3.04	0.00	-	0.00	0.00	-	0.00	0.00	447.6	0.01	0.07
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Water	3	6	2.00	0.19	4.15	3.04	0.00	-	0.00	0.00	-	0.00	0.00	447.6	0.01	0.07
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Water	3	6	2.00	0.19	4.15	3.04	0.00	-	0.00	0.00	-	0.00	0.00	447.6	0.01	0.07
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Water	3	6	2.00	0.19	4.15	3.04	0.00	-	0.00	0.00	-	0.00	0.00	447.6	0.01	0.07
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Water	3	6	2.00	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.6	0.01	0.07
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Water	3	6	2.00	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.6	0.01	0.07
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Water	3	6	2.00	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.6	0.01	0.07
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Water	3	6	2.00	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.6	0.01	0.07
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Water	3	6	2.00	0.19	4.15	3.04	0.00	-	0.00	0.00	-	0.00	0.00	447.6	0.01	0.07
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Water	3	6	2.00	0.19	4.15	3.04	0.00	-	0.00	0.00	-	0.00	0.00	447.6	0.01	0.07
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Water	3	6	2.00	0.19	4.23	3.01	0.00	-	0.00	0.00	-	0.00	0.00	453.6	0.01	0.07
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	2028	Water	3	6	2.00	0.19	4.54	2.98	0.00	-	0.00	0.00	-	0.00	0.00	475.0	0.01	0.07
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Water	3	6	2.00	0.19	4.54	2.98	0.00	-	0.00	0.00	-	0.00	0.00	475.0	0.01	0.07
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Water	3	6	2.00	0.19	4.54	2.98	0.00	-	0.00	0.00	-	0.00	0.00	475.0	0.01	0.07

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate Speeds; **Fleet Mix:100%** HHDT); **Fuel Type:** Diesel

2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.

3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 5

WATER TRUCKS (OFFSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Daily Emissions (lb/day)												
											ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	2029	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	2030	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	2030	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
D Line Wilshire-Westwood Stn_U-Alt5-TBM Pass Through-Maintenance	10/1/2031	11/30/2031	6	52	20	2031	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	2031	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	2033	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	2028	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	40	0.00	0.01
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	2029	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	2029	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	2031	Water	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	2033	Water	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	2033	Water	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	2026	Water	3	6	2.00	0.00	0.09	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	41	0.00	0.01
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	2026	Water	3	6	2.00	0.00	0.09	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	41	0.00	0.01
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	2027	Water	3	6	2.00	0.00	0.09	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	40	0.00	0.01
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	2028	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	40	0.00	0.01
Ventura Blvd Stn_U-Alt5-Mobilize/Launch Reach 2 TBM	10/1/2028	1/30/2029	7	122	20	2028	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	40	0.00	0.01
Ventura Blvd Stn_U-Alt5-Retrieve/Demob Reach 3 TBM	2/19/2032	5/18/2032	7	90	20	2032	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	2031	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	2033	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	2035	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37	0.00	0.01
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	2027	Water	3	6	2.00	0.00	0.09	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	40	0.00	0.01
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	2027	Water	3	6	2.00	0.00	0.09	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	40	0.00	0.01
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	2029	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
Sepulveda-Metro G Line Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2030	10/31/2030	6	52	20	2030	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	2030	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	2031	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	2026	Water	3	6	2.00	0.00	0.09	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	41	0.00	0.01
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	2027	Water	3	6	2.00	0.00	0.09	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	40	0.00	0.01
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	2028	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	40	0.00	0.01
Sherman Way Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2029	10/31/2029	6	52	10	2029	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	2029	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	2030	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	2033	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	2029	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	2030	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	2030	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	2031	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39	0.00	0.01
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	2032	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37	0.00	0.01
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37	0.00	0.01
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37	0.00	0.01
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37	0.00	0.01
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37	0.00	0.01
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37	0.00	0.01
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38	0.00	0.01
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	2028	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	40	0.00	0.01
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	40	0.00	0.01
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Water	3	6	2.00	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	40	0.00	0.01

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate Speeds; **Fleet Mix:100%** HHDT); **Fuel Type:** Diesel
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 5

WATER TRUCKS (OFFSITE)

											Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	2029	Water	3	6	2.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.8	0.00	0.00	3.9
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	2030	Water	3	6	2.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.6	0.00	0.00	4.8
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	2030	Water	3	6	2.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.6	0.00	0.00	5.9
D Line Wilshire-Westwood Stn_U-Alt5-TBM Pass Through-Maintenance	10/1/2031	11/30/2031	6	52	20	2031	Water	3	6	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.9	0.00	0.00	1.0
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	2031	Water	3	6	2.00	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.5	0.00	0.00	10.0
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	2033	Water	3	6	2.00	0.00	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.3	0.00	0.00	13.9
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	2028	Water	3	6	2.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.8	0.00	0.00	3.9
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	2029	Water	3	6	2.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.5	0.00	0.00	6.8
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	2029	Water	3	6	2.00	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.1	0.00	0.00	7.5
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	2031	Water	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	2033	Water	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	2033	Water	-	-	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	2026	Water	3	6	2.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.6	0.00	0.00	3.8
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	2026	Water	3	6	2.00	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.5	0.00	0.00	6.8
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	2027	Water	3	6	2.00	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.6	0.00	0.00	8.0
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	2028	Water	3	6	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.9	0.00	0.00	2.0
Ventura Blvd Stn_U-Alt5-Mobilize/Launch Reach 2 TBM	10/1/2028	1/30/2029	7	122	20	2028	Water	3	6	2.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.2	0.00	0.00	2.3
Ventura Blvd Stn_U-Alt5-Retrieve/Demob Reach 3 TBM	2/19/2032	5/18/2032	7	90	20	2032	Water	3	6	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.6	0.00	0.00	1.6
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	2031	Water	3	6	2.00	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.8	0.00	0.00	11.3
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	2033	Water	3	6	2.00	0.00	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.3	0.00	0.00	13.9
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	2035	Water	3	6	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.9	0.00	0.00	0.9
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	2027	Water	3	6	2.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.8	0.00	0.00	4.0
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	2027	Water	3	6	2.00	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.7	0.00	0.00	7.0
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	2029	Water	3	6	2.00	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.4	0.00	0.00	7.7
Sepulveda-Metro G Line Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2030	10/31/2030	6	52	20	2030	Water	3	6	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.9	0.00	0.00	1.0
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	2030	Water	3	6	2.00	0.00	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.0	0.00	0.00	11.5
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	2031	Water	3	6	2.00	0.00	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.5	0.00	0.00	14.2
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	2026	Water	3	6	2.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.8	0.00	0.00	4.0
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	2027	Water	3	6	2.00	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.7	0.00	0.00	7.0
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	2028	Water	3	6	2.00	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.5	0.00	0.00	7.9
Sherman Way Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2029	10/31/2029	6	52	10	2029	Water	3	6	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.9	0.00	0.00	1.0
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	2029	Water	3	6	2.00	0.00	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.1	0.00	0.00	11.6
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	2030	Water	3	6	2.00	0.00	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.7	0.00	0.00	14.3
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	2033	Water	3	6	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.1	0.00	0.00	1.1
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	2029	Water	3	6	2.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.9	0.00	0.00	3.0
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	2030	Water	3	6	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.2	0.00	0.00	2.3
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	2030	Water	3	6	2.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.3	0.00	0.00	4.5
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	2031	Water	3	6	2.00	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.1	0.00	0.00	10.6
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	2032	Water	3	6	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.8	0.00	0.00	0.9
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	2034	Water	3	6	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.3	0.00	0.00	1.4
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	2034	Water	3	6	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.8	0.00	0.00	1.9
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	2034	Water	3	6	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	2034	Water	3	6	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.4	0.00	0.00	0.4
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	2032	Water	3	6	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.3	0.00	0.00	1.4
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	2032	Water	3	6	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.9	0.00	0.00	0.9
MSF-Grading	3/1/2032	7/31/2032	6	132	10	2032	Water	3	6	2.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.3	0.00	0.00	2.4
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	2032	Water	3	6	2.00	0.00	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.5	0.00	0.00	14.2
MSF-Paving	12/1/2034	1/30/2035	6	52	10	2034	Water	3	6	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.9	0.00	0.00	0.9
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	2034	Water	3	6	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.3	0.00	0.00	1.4
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	2032	Water	3	6	2.00	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.8	0.00	0.00	11.3
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	2028	Water	3	6	2.00	0.00	0.07	0.03	0.00	0.01	0.00	0.01	0.00	0.00	0.00	28.3	0.00	0.00	29.6
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	2028	Water	3	6	2.00	0.00	0.12	0.06	0.00	0.02	0.00	0.02	0.00	0.00	0.00	53.7	0.00	0.01	56.2
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	2028	Water	3	6	2.00	0.00	0.11	0.05	0.00	0.01	0.00	0.01	0.00	0.00	0.00	45.2	0.00	0.01	47.4

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate Speeds; **Fleet Mix:100%** HHDT);
Fuel Type: Diesel
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 5

ARCHITECTURAL COATINGS-NON-RESIDENTIAL BUILDINGS (ONSITE)

									Non-Residential Interior						Non-Residential Exterior							
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	Coating Type	Building Area (SF)	VOC Content (g/L)	Interior EF (lb VOC/SF)	Fraction of Surface Area	Surface Area Factor	Interior Surface Area (SF)	Interior Emissions (lbs)	VOC Content (g/L)	Exterior EF (lb VOC/SF)	Fraction of Surface Area	Surface Area Factor	Exterior Surface Area (SF)	Exterior Emissions (lbs)	Total ROG Emissions (tons)	Daily ROG Emissions (lb/day)
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	4/15/2030	6/11/2032	7	789	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	6/12/2032	11/28/2033	7	535	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	12/1/2033	7/13/2034	7	225	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	3/1/2029	2/14/2033	7	1447	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Slabs, Walkways, Plenum	8/23/2032	12/14/2034	7	844	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	4/3/2029	2/19/2032	7	1053	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Slabs, Walkways, Plenum	9/23/2031	5/18/2033	7	604	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	10/29/2030	12/24/2030	6	49	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	12/20/2031	1/20/2032	6	27	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 6-Reach 3 Portal to MSF-Paving	7/19/2032	7/14/2033	6	310	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Metro E Line Stn_U-Alt5-TBM Pass Through-Maintenance	8/1/2030	9/30/2030	6	52	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Santa Monica Stn_U-Alt5-TBM Pass Through-Maintenance	3/1/2031	4/30/2031	6	52	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 5

ARCHITECTURAL COATINGS-NON-RESIDENTIAL BUILDINGS (ONSITE)

								Non-Residential Interior						Non-Residential Exterior							
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	Coating Type	Building Area (SF)	VOC Content (g/L)	Interior EF (lb VOC/SF)	Fraction of Surface Area	Surface Area Factor	Interior Surface Area (SF)	Interior Emissions (lbs)	VOC Content (g/L)	Exterior EF (lb VOC/SF)	Fraction of Surface Area	Surface Area Factor	Exterior Surface Area (SF)	Exterior Emissions (lbs)	Total ROG Emissions (tons)	Daily ROG Emissions (lb/day)
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-TBM Pass Through-Maintenance	10/1/2031	11/30/2031	6	52	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Ventura Blvd Stn_U-Alt5-Mobilize/Launch Reach 2 TBM	10/1/2028	1/30/2029	7	122	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Ventura Blvd Stn_U-Alt5-Retrieve/Demob Reach 3 TBM	2/19/2032	5/18/2032	7	90	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2030	10/31/2030	6	52	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Sherman Way Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2029	10/31/2029	6	52	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
MSF-Grading	3/1/2032	7/31/2032	6	132	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	Non-Residential	268800	100	0.00464	75%	2.0	403200	1869	100	0.00464	25%	2.0	134400	623	1.25	3.19
MSF-Paving	12/1/2034	1/30/2035	6	52	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-

Notes:

1. VOC content values based on CalEEMod default values.
2. Emissions calculated in accordance with CalEEMod methodology.

Sepulveda Transit Corridor Project - ALTERNATIVE 5

ARCHITECTURAL COATINGS-PARKING (ONSITE)

								Parking Paved Area					
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Hours per Workday**	**Coating Type**	**Parking Area (SF)**	**VOC Content (g/L)**	**Parking EF (lb VOC/SF)**	**% of Parking Area Painted**	**Parking Area to Be Painted (SF)**	**Total ROG Emissions (tons)**	**Daily ROG Emissions (lb/day)**
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	Parking	-	100	0.00464	6%	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	Parking	-	100	0.00464	6%	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	Parking	-	100	0.00464	6%	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	Parking	-	100	0.00464	6%	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	Parking	-	100	0.00464	6%	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	Parking	-	100	0.00464	6%	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	Parking	-	100	0.00464	6%	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	4/15/2030	6/11/2032	7	789	20	Parking	-	100	0.00464	6%	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	6/12/2032	11/28/2033	7	535	20	Parking	-	100	0.00464	6%	-	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	12/1/2033	7/13/2034	7	225	20	Parking	-	100	0.00464	6%	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	Parking	-	100	0.00464	6%	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	Parking	-	100	0.00464	6%	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	Parking	-	100	0.00464	6%	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	3/1/2029	2/14/2033	7	1447	20	Parking	-	100	0.00464	6%	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Slabs, Walkways, Plenum	8/23/2032	12/14/2034	7	844	20	Parking	-	100	0.00464	6%	-	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	Parking	-	100	0.00464	6%	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	Parking	-	100	0.00464	6%	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	Parking	-	100	0.00464	6%	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	Parking	-	100	0.00464	6%	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	Parking	-	100	0.00464	6%	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	Parking	-	100	0.00464	6%	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	Parking	-	100	0.00464	6%	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	Parking	-	100	0.00464	6%	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	4/3/2029	2/19/2032	7	1053	20	Parking	-	100	0.00464	6%	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Slabs, Walkways, Plenum	9/23/2031	5/18/2033	7	604	20	Parking	-	100	0.00464	6%	-	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	Parking	-	100	0.00464	6%	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	Parking	-	100	0.00464	6%	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	Parking	-	100	0.00464	6%	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	Parking	-	100	0.00464	6%	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	Parking	-	100	0.00464	6%	-	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	Parking	-	100	0.00464	6%	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	Parking	-	100	0.00464	6%	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	Parking	-	100	0.00464	6%	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	Parking	-	100	0.00464	6%	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	10/29/2030	12/24/2030	6	49	20	Parking	-	100	0.00464	6%	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	Parking	-	100	0.00464	6%	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	12/20/2031	1/20/2032	6	27	20	Parking	-	100	0.00464	6%	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	Parking	-	100	0.00464	6%	-	-	-
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	Parking	-	100	0.00464	6%	-	-	-
Segment 6-Reach 3 Portal to MSF-Paving	7/19/2032	7/14/2033	6	310	20	Parking	177457.0	100	0.00464	6%	10647.4	0.025	0.159
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	Parking	-	100	0.00464	6%	-	-	-
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	Parking	-	100	0.00464	6%	-	-	-
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	Parking	-	100	0.00464	6%	-	-	-
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	Parking	-	100	0.00464	6%	-	-	-
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	Parking	-	100	0.00464	6%	-	-	-
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	Parking	-	100	0.00464	6%	-	-	-
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	Parking	-	100	0.00464	6%	-	-	-
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	Parking	-	100	0.00464	6%	-	-	-
Metro E Line Stn_U-Alt5-TBM Pass Through-Maintenance	8/1/2030	9/30/2030	6	52	20	Parking	-	100	0.00464	6%	-	-	-
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	Parking	-	100	0.00464	6%	-	-	-
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	Parking	-	100	0.00464	6%	-	-	-
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	Parking	58043.0	100	0.00464	6%	3482.6	0.008	0.283
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	Parking	-	100	0.00464	6%	-	-	-
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	Parking	-	100	0.00464	6%	-	-	-
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	Parking	-	100	0.00464	6%	-	-	-
Santa Monica Stn_U-Alt5-TBM Pass Through-Maintenance	3/1/2031	4/30/2031	6	52	20	Parking	-	100	0.00464	6%	-	-	-
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	Parking	-	100	0.00464	6%	-	-	-
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	Parking	-	100	0.00464	6%	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 5

ARCHITECTURAL COATINGS-PARKING (ONSITE)

								Parking Paved Area					
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Hours per Workday**	**Coating Type**	**Parking Area (SF)**	**VOC Content (g/L)**	**Parking EF (lb VOC/SF)**	**% of Parking Area Painted**	**Parking Area to Be Painted (SF)**	**Total ROG Emissions (tons)**	**Daily ROG Emissions (lb/day)**
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	Parking	-	100	0.00464	6%	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	Parking	-	100	0.00464	6%	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	Parking	-	100	0.00464	6%	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-TBM Pass Through-Maintenance	10/1/2031	11/30/2031	6	52	20	Parking	-	100	0.00464	6%	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	Parking	-	100	0.00464	6%	-	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	Parking	-	100	0.00464	6%	-	-	-
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	Parking	-	100	0.00464	6%	-	-	-
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	Parking	-	100	0.00464	6%	-	-	-
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	Parking	-	100	0.00464	6%	-	-	-
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	Parking	-	100	0.00464	6%	-	-	-
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	Parking	-	100	0.00464	6%	-	-	-
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	Parking	-	100	0.00464	6%	-	-	-
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	Parking	-	100	0.00464	6%	-	-	-
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	Parking	-	100	0.00464	6%	-	-	-
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	Parking	-	100	0.00464	6%	-	-	-
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	Parking	-	100	0.00464	6%	-	-	-
Ventura Blvd Stn_U-Alt5-Mobilize/Launch Reach 2 TBM	10/1/2028	1/30/2029	7	122	20	Parking	-	100	0.00464	6%	-	-	-
Ventura Blvd Stn_U-Alt5-Retrieve/Demob Reach 3 TBM	2/19/2032	5/18/2032	7	90	20	Parking	-	100	0.00464	6%	-	-	-
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	Parking	-	100	0.00464	6%	-	-	-
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	Parking	-	100	0.00464	6%	-	-	-
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	Parking	720.7	100	0.00464	6%	43.2	0.000	0.004
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	Parking	-	100	0.00464	6%	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	Parking	-	100	0.00464	6%	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	Parking	-	100	0.00464	6%	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2030	10/31/2030	6	52	20	Parking	-	100	0.00464	6%	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	Parking	-	100	0.00464	6%	-	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	Parking	-	100	0.00464	6%	-	-	-
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	Parking	-	100	0.00464	6%	-	-	-
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	Parking	-	100	0.00464	6%	-	-	-
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	Parking	-	100	0.00464	6%	-	-	-
Sherman Way Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2029	10/31/2029	6	52	10	Parking	-	100	0.00464	6%	-	-	-
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	Parking	-	100	0.00464	6%	-	-	-
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	Parking	-	100	0.00464	6%	-	-	-
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	Parking	769.5	100	0.00464	6%	46.2	0.000	0.003
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	Parking	-	100	0.00464	6%	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	Parking	-	100	0.00464	6%	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	Parking	-	100	0.00464	6%	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	Parking	-	100	0.00464	6%	-	-	-
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	Parking	185128.0	100	0.00464	6%	11107.7	0.026	1.096
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	Parking	-	100	0.00464	6%	-	-	-
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	Parking	-	100	0.00464	6%	-	-	-
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	Parking	-	100	0.00464	6%	-	-	-
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	Parking	-	100	0.00464	6%	-	-	-
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	Parking	-	100	0.00464	6%	-	-	-
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	Parking	-	100	0.00464	6%	-	-	-
MSF-Grading	3/1/2032	7/31/2032	6	132	10	Parking	-	100	0.00464	6%	-	-	-
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	Parking	-	100	0.00464	6%	-	-	-
MSF-Paving	12/1/2034	1/30/2035	6	52	10	Parking	385070.4	100	0.00464	6%	23104.2	0.054	2.060
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	Parking	-	100	0.00464	6%	-	-	-
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	Parking	-	100	0.00464	6%	-	-	-
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	Parking	-	100	0.00464	6%	-	-	-
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	Parking	-	100	0.00464	6%	-	-	-
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	Parking	-	100	0.00464	6%	-	-	-

Notes:

1. VOC content values based on CalEEMod default values.
2. Emissions calculated in accordance with CalEEMod methodology.

Sepulveda Transit Corridor Project - ALTERNATIVE 5

PAVING OFF-GASSING (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	Paved Area (SF)	Paved Area (Acres)	Paved Area (Acres) / day	Off-Gassing EF (lb/acre)[1]	Daily ROG Emissions (lb/day)[2]	Total ROG Emissions (tons)[2]
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	11/1/2028	1/31/2029	6	79	10	-	-	-	2.62	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	2/1/2029	5/31/2029	6	103	10	-	-	-	2.62	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	6/1/2029	9/30/2029	6	104	10	-	-	-	2.62	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	10/1/2029	12/2/2029	6	54	10	-	-	-	2.62	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	12/3/2029	4/1/2030	7	120	20	-	-	-	2.62	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	4/2/2030	5/28/2032	7	788	20	-	-	-	2.62	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Demobilization	6/1/2032	8/27/2032	7	88	20	-	-	-	2.62	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	4/15/2030	6/11/2032	7	789	20	-	-	-	2.62	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenur	6/12/2032	11/28/2033	7	535	20	-	-	-	2.62	-	-
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installatior	12/1/2033	7/13/2034	7	225	20	-	-	-	2.62	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	-	-	-	2.62	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	1/31/2029	1/28/2033	7	1459	20	-	-	-	2.62	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	1/29/2033	4/28/2033	7	90	20	-	-	-	2.62	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	3/1/2029	2/14/2033	7	1447	20	-	-	-	2.62	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Slabs, Walkways, Plenum	8/23/2032	12/14/2034	7	844	20	-	-	-	2.62	-	-
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	12/14/2034	1/10/2036	7	393	20	-	-	-	2.62	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	10/1/2027	12/31/2027	6	79	10	-	-	-	2.62	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	1/1/2028	4/30/2028	6	103	10	-	-	-	2.62	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	5/1/2028	8/31/2028	6	106	10	-	-	-	2.62	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	9/1/2028	9/30/2028	6	26	10	-	-	-	2.62	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	10/1/2028	1/30/2029	7	122	20	-	-	-	2.62	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	1/31/2029	2/18/2032	7	1114	20	-	-	-	2.62	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	2/19/2032	5/18/2032	7	90	20	-	-	-	2.62	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	4/3/2029	2/19/2032	7	1053	20	-	-	-	2.62	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Slabs, Walkways, Plenum	9/23/2031	5/18/2033	7	604	20	-	-	-	2.62	-	-
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	5/19/2033	6/13/2034	7	391	20	-	-	-	2.62	-	-
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	2/1/2030	4/30/2030	6	76	20	-	-	-	2.62	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	5/1/2030	10/31/2030	6	158	20	-	-	-	2.62	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	11/1/2030	8/31/2031	6	260	20	-	-	-	2.62	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	9/1/2031	10/19/2032	6	356	20	-	-	-	2.62	-	-
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	10/20/2032	4/18/2033	6	155	20	-	-	-	2.62	-	-
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	12/27/2029	3/27/2030	6	78	20	-	-	-	2.62	-	-
Segment 6-Reach 3 Portal to MSF-AG-Columns	2/1/2030	10/31/2030	6	234	20	-	-	-	2.62	-	-
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	10/1/2030	12/24/2030	6	73	20	-	-	-	2.62	-	-
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	10/29/2030	12/24/2030	6	49	20	-	-	-	2.62	-	-
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	12/25/2030	12/19/2031	6	309	20	-	-	-	2.62	-	-
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	12/20/2031	1/20/2032	6	27	20	-	-	-	2.62	-	-
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	1/21/2032	10/19/2032	6	234	20	-	-	-	2.62	-	-
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	10/20/2032	4/18/2033	6	155	20	-	-	-	2.62	-	-
Segment 6-Reach 3 Portal to MSF-Paving	7/19/2032	7/14/2033	6	310	20	177457	4.07	0.01	2.62	0.034	0.005
TBM Access Shaft/Staging Site-Demolition/Site Preparation	4/26/2030	6/30/2030	6	56	10	-	-	-	2.62	-	-
TBM Access Shaft/Staging Site-Shaft SOE	7/1/2030	8/31/2030	6	54	10	-	-	-	2.62	-	-
TBM Access Shaft/Staging Site-Shaft Excavation	9/1/2030	10/31/2030	6	52	10	-	-	-	2.62	-	-
TBM Access Shaft/Staging Site-Shaft Concrete Work	11/1/2030	11/30/2030	6	26	10	-	-	-	2.62	-	-
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	12/1/2030	10/21/2031	7	325	20	-	-	-	2.62	-	-
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	9/1/2027	4/30/2028	6	208	20	-	-	-	2.62	-	-
Metro E Line Stn_U-Alt5-Support of Excavation	5/1/2028	2/28/2029	6	261	20	-	-	-	2.62	-	-
Metro E Line Stn_U-Alt5-Box Excavation	3/1/2029	3/7/2030	6	319	20	-	-	-	2.62	-	-
Metro E Line Stn_U-Alt5-TBM Pass Through-Maintenance	8/1/2030	9/30/2030	6	52	20	-	-	-	2.62	-	-
Metro E Line Stn_U-Alt5-Station Structural Concrete	3/8/2030	3/5/2032	6	625	20	-	-	-	2.62	-	-
Metro E Line Stn_U-Alt5-Fit Out and Completion	9/8/2031	3/8/2034	6	783	20	-	-	-	2.62	-	-
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	1/1/2034	3/8/2034	6	57	20	58043	1.33	0.02	2.62	0.061	0.002
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/28/2029	6	205	20	-	-	-	2.62	-	-
Santa Monica Stn_U-Alt5-Support of Excavation	5/29/2029	3/31/2030	6	263	20	-	-	-	2.62	-	-
Santa Monica Stn_U-Alt5-Box Excavation	11/29/2029	11/26/2030	6	311	20	-	-	-	2.62	-	-
Santa Monica Stn_U-Alt5-TBM Pass Through-Maintenance	3/1/2031	4/30/2031	6	52	20	-	-	-	2.62	-	-
Santa Monica Stn_U-Alt5-Station Structural Concrete	11/27/2030	11/18/2032	6	620	20	-	-	-	2.62	-	-
Santa Monica Stn_U-Alt5-Fit Out and Completion	7/29/2032	1/18/2035	6	775	20	-	-	-	2.62	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 5

PAVING OFF-GASSING (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	Paved Area (SF)	Paved Area (Acres)	Paved Area (Acres) / day	Off-Gassing EF (lb/acre)[1]	Daily ROG Emissions (lb/day)[2]	Total ROG Emissions (tons)[2]
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	5/1/2029	12/31/2029	6	210	20	-	-	-	2.62	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	1/1/2030	10/31/2030	6	261	20	-	-	-	2.62	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	7/1/2030	7/7/2031	6	319	20	-	-	-	2.62	-	-
D Line Wilshire-Westwood Stn_U-Alt5-TBM Pass Through-Maintenance	10/1/2031	11/30/2031	6	52	20	-	-	-	2.62	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	7/8/2031	4/1/2033	6	544	20	-	-	-	2.62	-	-
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	2/14/2033	8/6/2035	6	775	20	-	-	-	2.62	-	-
UCLA Stn_U-Alt5-Demolition/Site Preparation	10/1/2028	5/31/2029	6	208	20	-	-	-	2.62	-	-
UCLA Stn_U-Alt5-Support of Excavation	6/1/2029	7/30/2030	6	364	20	-	-	-	2.62	-	-
UCLA Stn_U-Alt5-Box Excavation	11/1/2029	2/9/2031	6	399	20	-	-	-	2.62	-	-
UCLA Stn_U-Alt5-Structural Concrete Part 1	2/10/2031	6/4/2032	6	413	20	-	-	-	2.62	-	-
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	3/1/2033	2/24/2034	7	361	20	-	-	-	2.62	-	-
UCLA Stn_U-Alt5-Fit Out and Completion	7/29/2033	1/18/2036	6	775	20	-	-	-	2.62	-	-
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	4/1/2026	11/13/2026	6	195	20	-	-	-	2.62	-	-
Ventura Blvd Stn_U-Alt5-Support of Excavation	9/14/2026	10/28/2027	6	352	20	-	-	-	2.62	-	-
Ventura Blvd Stn_U-Alt5-Box Excavation	4/1/2027	7/31/2028	6	418	20	-	-	-	2.62	-	-
Ventura Blvd Stn_U-Alt5-Box Concrete Work	6/1/2028	9/30/2028	6	105	20	-	-	-	2.62	-	-
Ventura Blvd Stn_U-Alt5-Mobilize/Launch Reach 2 TBM	10/1/2028	1/30/2029	7	122	20	-	-	-	2.62	-	-
Ventura Blvd Stn_U-Alt5-Retrieve/Demob Reach 3 TBM	2/19/2032	5/18/2032	7	90	20	-	-	-	2.62	-	-
Ventura Blvd Stn_U-Alt5-Structural Concrete	10/21/2031	10/12/2033	6	620	20	-	-	-	2.62	-	-
Ventura Blvd Stn_U-Alt5-Fit Out and Completion	4/14/2033	10/4/2035	6	775	20	-	-	-	2.62	-	-
Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	8/4/2035	10/4/2035	6	53	20	721	0.02	0.00	2.62	0.001	0.000
Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	3/1/2027	10/31/2027	6	210	20	-	-	-	2.62	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	11/1/2027	12/31/2028	6	366	20	-	-	-	2.62	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	1/1/2029	4/25/2030	6	412	20	-	-	-	2.62	-	-
Sepulveda-Metro G Line Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2030	10/31/2030	6	52	20	-	-	-	2.62	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	4/26/2030	4/19/2032	6	621	20	-	-	-	2.62	-	-
Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	12/19/2031	6/9/2034	6	775	20	-	-	-	2.62	-	-
Sherman Way Stn_U-Alt5-Demolition/Site Preparation	12/1/2026	7/30/2027	6	208	20	-	-	-	2.62	-	-
Sherman Way Stn_U-Alt5-Support of Excavation	5/1/2027	6/29/2028	6	365	20	-	-	-	2.62	-	-
Sherman Way Stn_U-Alt5-Box Excavation	1/1/2028	4/30/2029	6	416	20	-	-	-	2.62	-	-
Sherman Way Stn_U-Alt5-TBM Pass Through-Maintenance	9/1/2029	10/31/2029	6	52	10	-	-	-	2.62	-	-
Sherman Way Stn_U-Alt5-Station Structural Concrete	5/1/2029	4/23/2031	6	620	20	-	-	-	2.62	-	-
Sherman Way Stn_U-Alt5-Fit Out and Completion	10/24/2030	4/14/2033	6	775	20	-	-	-	2.62	-	-
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	2/1/2033	4/14/2033	6	63	10	770	0.02	0.00	2.62	0.001	0.000
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	7/1/2029	1/7/2030	6	163	20	-	-	-	2.62	-	-
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	1/8/2030	5/31/2030	6	124	20	-	-	-	2.62	-	-
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	6/1/2030	3/10/2031	6	242	20	-	-	-	2.62	-	-
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	3/10/2031	1/10/2033	6	577	20	-	-	-	2.62	-	-
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	11/17/2032	1/10/2033	6	47	20	185128	4.25	0.09	2.62	0.237	0.006
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	1/1/2034	3/31/2034	6	77	10	-	-	-	2.62	-	-
TPSS 11-Sta 1260-Grounding-Foundations	4/1/2034	7/31/2034	6	104	10	-	-	-	2.62	-	-
TPSS 11-Sta 1260-TPSS Installation	8/1/2034	8/7/2034	6	6	10	-	-	-	2.62	-	-
TPSS 11-Sta 1260-Site Restoration	8/8/2034	8/31/2034	6	21	10	-	-	-	2.62	-	-
MSF-Demolition	2/11/2032	5/10/2032	6	77	10	-	-	-	2.62	-	-
MSF-Site Preparation	2/11/2032	4/11/2032	6	52	10	-	-	-	2.62	-	-
MSF-Grading	3/1/2032	7/31/2032	6	132	10	-	-	-	2.62	-	-
MSF-Building Construction	8/1/2032	1/30/2035	6	782	10	-	-	-	2.62	-	-
MSF-Paving	12/1/2034	1/30/2035	6	52	10	385070	8.84	0.17	2.62	0.445	0.012
MSF-Archictectural Coating	11/1/2034	1/30/2035	6	78	10	-	-	-	2.62	-	-
MSF-Test Track	12/28/2032	12/27/2034	6	626	10	-	-	-	2.62	-	-
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	-	-	-	2.62	-	-
NCZ Staging Area-Staging Activity	1/1/2028	6/30/2037	6	2973	20	-	-	-	2.62	-	-
SCZ Staging Area-Staging Activity	1/1/2028	12/31/2035	6	2504	20	-	-	-	2.62	-	-

Notes:

1. Emission factor based on CalEEMod default value.
2. Emissions calculated in accordance with CalEEMod methodology.

Sepulveda Transit Corridor Project - ALTERNATIVE 5

CONCRETE BATCH PLANT FUGITIVE DUST (ONSITE)

								Batch Plant EF (lb/CY)						Daily Emissions (lb/day)						Total Emissions (tons)					
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Hours per Workday**	**Concrete Required (CY)**	**Concrete Throughput (CY/day)**	**PM_{10} Fugitive**	**PM_{10} Exhaust**	**PM_{10} Total**	**$PM_{2.5}$ Fugitive**	**$PM_{2.5}$ Exhaust**	**$PM_{2.5}$ Total**	**PM_{10} Fugitive**	**PM_{10} Exhaust**	**PM_{10} Total**	**$PM_{2.5}$ Fugitive**	**$PM_{2.5}$ Exhaust**	**$PM_{2.5}$ Total**	**PM_{10} Fugitive**	**PM_{10} Exhaust**	**PM_{10} Total**	**$PM_{2.5}$ Fugitive**	**$PM_{2.5}$ Exhaust**	**$PM_{2.5}$ Total**
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	855,196	546	0.0172	-	0.0172	0.0028	-	0.0028	9.37	-	9.37	1.51	-	1.51	7.3337	-	7.3337	1.1829	-	1.1829

	Emission Factors-Controlled (lb pollutant/CY Concrete)[5]	
Batch Plant Process	**PM_{10}**	**$PM_{2.5}$**
Aggregate Delivery to Ground Storage[1]	0.0031	5.00E-04
Sand Delivery to Ground Storage[1]	0.0007	1.13E-04
Aggregate Transfer to Conveyor[1]	0.0031	5.00E-04
Sand Transfer to Conveyor[1]	0.0007	1.13E-04
Aggregate Transfer to Elevated Storage[1]	0.0031	5.00E-04
Sand Transfer to Elevated Storage[1]	0.0007	1.13E-04
Cement Delivery to Silo[1]	0.0001	1.61E-05
Cement Supplement Delivery to Silo[1]	0.0003	4.84E-05
Weigh Hopper Loading[1]	0.0038	6.13E-04
Central Mixing[2]	0.0016	2.50E-04
Total EF	**0.0172**	**0.0028**

Uncontrolled Truck Mixing EFs[4]

PM_{10}	**$PM_{2.5}$**	**$PM_{2.5}/PM_{10}$**
0.310	0.050	16%

PM2.5 EF is 16% of PM10 EF

	lb PM10 /ton of cement and cement supplement[5]	**Conversion Factor**	**lb PM10/CY Concrete**
Central Mixer EF[3]	0.0055	0.282	0.0016

Notes:

1. USEPA 2006, AP-42-11.12 Concrete Batching, Table 11.12-6
2. USEPA 2006, AP-42-11.12 Concrete Batching, Table 11.12-2
3. USEPA 2006, AP-42-11.12-Page 11.12-9
4. USEPA 2006, AP-42-11.12 Concrete Batching, Table 11.12-3-Based on Uncontrolled EFs
5. Assuming Mixer Loading will have dust controls, thus, the EF is based on a controlled EF for mixer loading (central mix).

Sepulveda Transit Corridor Project - ALTERNATIVE 5

CONCRETE BATCH PLANT WIND BLOWN DUST FROM STORAGE PILES (ONSITE)

										Storage Pile EF (lb/acre/day)						Daily Emissions (lb/day)						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	# of Storage Piles[3]	Storage Pile Area (acres)	Storage Pile Height (ft)	Total Storage Pile Area (acres)	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total
Precast Yard-Alt 5 Concrete Activity	6/1/2028	5/31/2033	6	1565	20	4	0.50	32	2	0.77	-	0.77	0.12	-	0.12	1.53	-	1.53	0.23	-	0.23	1.20	-	1.20	0.18	-	0.18

Wind Blown Emission Factors[1]

	PM_{10}	$PM_{2.5}$
EF (lb/day/acre)	***0.77***	***0.12***
s (silt content of material (weight %))	2.6	2.6
f (% of time the unobstructed wind speed is greater than 12 mph (5.36 m/s) at the mean pile height)[2]	7.8	7.8

Emission Factor Equations[1]

$$E_{PM10} = 0.85\ (s/1.5)\ (f/15)$$
$$E_{PM2.5} = 0.13\ (s/1.5)\ (f/15)$$

**Assuming mean pile height is equivalent to anemometer height of meteorological station.*

1. Countess Environmental, WRAP Fugitive Dust Handbook-Section 9.3

2. f for the project is based on the wind speed class distribution for the Van Nuys Meteorological Station. At this station, 7.8% of wind speeds were greater than 5.70 m/s (12.7 mph) throughout the meteorological period (2012-2016). Although f is based on wind speeds of 12 mph, the wind dataset only had categories for 5.7 m/s and greater. The meteorological site's anemometer height is approximately 10 meters (32 feet), therefore, an 'f' of 7.8% is valid for a storage pile height of up to 32 feet.

3. The number of storage piles assumes 2 piles for sand and 2 piles for coarse aggregate.

Sepulveda Transit Corridor Project - ALTERNATIVE 5

Tunneling Electricity Consumption

Mining Site	Alternative	Approximate Tunnel Length (mile)	Total Power Rating for TBM and Associated Tunneling Systems (MW)[1]	Tunneling Duration (days)[2]	Avg Daily Usage (hours/day)	Total Tunneling Activity Duration (hours)	Electricity Consumption (MWh)	LADWP CO_2e Intensity Factor (lb/MWh)[3]	Total GHG Emissions ($MTCO_2e$)
Segment #1: Reach 1 Tunnel (Southern Terminus to UCLA) (Underground)	Alt 4 & Alt 5	3.0	9.00	788	20	15760	141840	567	36,479.43
Segment #2: Reach 2 Tunnel (UCLA to North Portal [Del Gado Dr]) (Underground)	Alt 4 Only	5.7	9.00		20				
Segment #4: Reach 2 Tunnel (UCLA to Sepulveda/Ventura Station) (Underground)	Alt 5 only	6.0	9.00	1,459	20	29180	262620	567	67,542.50
Segment #5: Sepulveda/Ventura Station to Reach 3 Tunnel Portal (Underground)	Alt 5 only	4.3	9.00	1,114	20	22280	200520	567	51,571.17
						Total	**604,980**	567	**155,593.1**

Notes:

1. Power rating data for TBM and tunneling systems ranged from 8,000 kW to 9,000 kW, conservatively using high-end of range.
2. Tunneling duration and daily usage is based on data for the "TBM Tunneling/Precast Liners" phase for each segment from the construction datasheet.
3. CO_2e intensity factor based on LADWP's 2022 Power Mix Content Label.

lb = pound

MWh = Megawatt-hours

$MTCO_2e$ = metric tons of carbon dioxide equivalent

Sepulveda Transit Corridor Project - ALTERNATIVE 5

Construction Electricity Consumption-Portable Offices

Electricity Consumption for 1 Portable Office[1,2]

			Annual		Monthly	
Land Use Type	Land Use Subtype in CalEEMod	Portable Office Area (SF)	Annual Electricity Consumption per Portable Office (kWh/year)	Annual GHG Emissions per Portable Office ($MTCO_2e$/year)	Monthly Electricity Consumption per Portable Office (kWh/month)	Monthly GHG Emissions per Portable Office ($MTCO_2e$/month)
Commercial	General Office Building	720	11,292.16	2.90	941.01	0.24

Construction GHG Emissions per Project Alternative[3]

Alternative	Number of Portable Offices	Monthly GHG Emissions per Portable Office ($MTCO_2e$/month)	Total Construction Duration (months)	Total GHG Emissions ($MTCO_2e$)
Alternative 5	3	0.24	136.9	99.4

Construction Electricity Consumption per Project Alternative[3]

Alternative	Number of Portable Offices	Monthly Electricity Consumption per Portable Office (kWh/month)	Total Construction Duration (months)	Total Electricity Consumption (kWh)	Total Electricity Consumption (MWh)
Alternative 5	3	941.01	136.9	386568.19	386.57

Notes:

1. CalEEMod was used to estimate electricity consumption from portable offices.
2. Monthly values estimated by dividing annual values by 12 months.
3. It was assumed each Project Alternative would have 3 portable offices used throughout the construction duration.

SF = square feet

kWh = kilowatt-hour

MWh = Megawatt-hour

$MTCO_2e$ = metric tons of carbon dioxide equivalent

Construction Localized Emissions Analysis

Alternative 5 Construction-Valley (North) Components

Maximum Daily Localized Emissions

Component ID	Component Description	Daily Emissions (lb/day)[1] NOX	CO	PM10	PM2.5
Segment 4-Reach 2 Tunnel_7_20	Segment 4-Reach 2 Tunnel Construction-7 Days per week/20 Hours per day	13.87	46.73	8.97	1.10
Segment 5-Reach 3 Prep_6_10	Segment 5-Reach 3 Prep (Portal) Construction-6 Days per week/10 Hours per day	-	-	-	-
Segment 5-Reach 3 Demob_7_20	Segment 5-Reach 3 DEMOB Construction-7 Days per week/20 Hours per day	13.85	-	-	0.40
Segment 5-Reach 3 Tunnel_7_20	Segment 5-Reach 3 Tunnel (VTA STN) Construction-7 Days per week/20 Hours per day	9.75	46.49	9.44	0.19
Segment 6-Reach 3 Portal to MSF-Cut Cover_6_20	Segment 6-Reach 3 Portal to MSF-Cut Cover Construction-6 Days per week/20 Hours per day	7.76	39.45	0.58	0.31
Segment 6-Reach 3 Portal to MSF-AG_6_20	Segment 6-Reach 3 Portal to MSF-AG Construction-6 Days per week/20 Hours per day	20.90	51.81	0.54	0.26
TBM Access Shaft/Staging Site_6_10	TBM Access Shaft/Staging Site Construction-6 Days per week/10 Hours per day	-	-	-	-
TBM Access Shaft/Staging Site_7_20	TBM Access Shaft/Staging Site Construction-7 Days per week/20 Hours per day	-	36.12	-	-
Ventura Blvd Stn Prep_6_20	Ventura Blvd Stn Prep Construction-6 Days per week/20 Hours per day	-	-	-	-
Ventura Blvd Stn-TBM Work_7_20	Ventura Blvd Stn-TBM Work Construction-7 Days per week/20 Hours per day	0.03	-	-	0.01
Ventura Blvd Stn_6_20	Ventura Blvd Stn Construction-6 Days per week/20 Hours per day	15.31	-	1.04	0.33
Sepulveda-Metro G Line Stn_6_20	Sepulveda-Metro G Line Stn Construction-6 Days per week/20 Hours per day	27.45	40.84	1.83	0.63
Sherman Way Stn_6_10	Sherman Way Stn Construction-6 Days per week/10 Hours per day	-	-	-	-
Sherman Way Stn_6_20	Sherman Way Stn Construction-6 Days per week/20 Hours per day	12.11	53.17	0.55	0.28
Metrolink Van Nuys Stn_6_20	Metrolink Van Nuys Stn Construction-6 Days per week/20 Hours per day	22.59	143.57	0.65	0.38
TPSS 11-Sta 1260_6_10	TPSS 11-Sta 1260 Construction-6 Days per week/10 Hours per day	-	-	-	-
MSF_6_10	MSF Construction-6 Days per week/10 Hours per day	7.46	-	12.41	5.92
Precast_6_20	Precast Construction-6 Days per week/20 Hours per day	16.68	48.59	13.72	2.45

Component Name	NOX	CO	PM10	PM2.5
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)	13.9	46.7	9.0	1.1
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)	23.6	46.5	9.4	0.6
Segment 6-Reach 3 Portal to MSF	28.7	91.3	1.1	0.6
TBM Access Shaft/Staging Site	-	36.1	-	-
Ventura Blvd Station	15.3	-	1.0	0.3
Sepulveda-Metro G Line Station	27.5	40.8	1.8	0.6
Sherman Way Station	12.1	53.2	0.6	0.3
Metrolink Van Nuys Station	22.6	143.6	0.7	0.4
TPSS 11-Sta 1260	-	-	-	-
MSF	7.5	-	12.4	5.9
Precast Yard	16.7	48.6	13.7	2.5
Components In Proximity to Each Other				
Segment 4 + Ventura Blvd Station	29.2	46.7	10.0	1.4
Segment 6 + Van Nuys Station + TPSS 11 + MSF + Precast Yard	75.4	283.4	27.9	9.3
Peak Daily Localized Emissions[2]	**75.4**	**283.4**	**27.9**	**9.3**
SCAQMD Localized Significance Threshold[3]	114	786	7	4
Exceeds Threshold?	No	No	Yes	Yes

Construction Localized Emissions Analysis

Alternative 5 Construction-Westside (South) Components

Maximum Daily Localized Emissions

Component ID	Component Description	Daily Emissions (lb/day)[1] NOX	CO	PM10	PM2.5
Segment 1-Reach 1 Tunnel Prep_6_10	Segment 1-Reach 1 Tunnel Prep Construction-6 Days per week/10 Hours per day	-	-	-	-
Segment 1-Reach 1 TBM Demob_7_20	Segment 1-Reach 1 TBM Demob-7 Days per week/20 Hours per day	-	-	-	-
Segment 1-Reach 1 Tunnel_7_20	Segment 1-Reach 1 Tunnel Construction-7 Days per week/20 Hours per day	13.5	53.8	8.1	1.0
Segment 4-TBM Demob_7_20	Segment 4-TBM Demob Construction-7 Days per week/20 Hours per day	-	-	-	-
Metro E Line Stn_6_20	Metro E Line Stn Construction-6 Days per week/20 Hours per day	27.3	40.8	0.9	0.3
Santa Monica Stn_6_20	Santa Monica Stn Construction-6 Days per week/20 Hours per day	15.4	80.4	2.6	0.4
D Line Wilshire-Westwood Stn_6_20	D Line Wilshire-Westwood Stn Construction-6 Days per week/10 Hours per day	17.8	47.1	4.6	0.8
UCLA Stn_6_20	UCLA Stn A Construction-6 Days per week/20 Hours per day	15.3	80.5	3.4	0.7
UCLA Stn_7_20	UCLA Stn B Construction-7 Days per week/20 Hours per day	-	-	-	-
	Component Name	**NOX**	**CO**	**PM10**	**PM2.5**
	Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)	13.5	53.8	8.1	1.0
	Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)	-	-	-	-
	Metro E Line Station	27.3	40.8	0.9	0.3
	Santa Monica Station	15.4	80.4	2.6	0.4
	D Line Wilshire-Westwood Station	17.8	47.1	4.6	0.8
	UCLA Station	15.3	80.5	3.4	0.7
	Components In Proximity to Each Other				
	N ot Applicable				
	Peak Daily Localized Emissions[2]	**27.3**	**80.5**	**8.1**	**1.0**
	SCAQMD Localized Significance Threshold[4]	147	827	6	4
	Exceeds Threshold?	No	No	Yes	No

Notes:

1. Daily emissions for each construction component represent the contribution to the maximum daily localized emissions in the Valley or Westside.
2. Peak daily emissions are based on components in proximity to each other that may affect similar nearby receptors.
3.LST values are based on a 2-acre site with a 25-meter receptor distance in SRA 7 East San Fernando Valley.
4.LST values are based on a 2-acre site with a 25-meter receptor distance in SRA 2 Northwest Coastal LA County.

Appendix A-5.2: Alternative 5 Operational Emissions

Operations Regional and Localized Daily Criteria Pollutant Emission Summaries

Daily Regional (Onsite + Offsite) Operational AQ Emissions

Alternative 5 (2045) Compared to No Project Alternative (2045)

	Daily Emissions (lb/day)									
Source Category	**ROG**	**NO_X**	**CO**	**SO_X**	**PM_{10} Fugitive**	**PM_{10} Exhaust**	**PM_{10} Total**	**$PM_{2.5}$ Fugitive**	**$PM_{2.5}$ Exhaust**	**$PM_{2.5}$ Total**
MSF Area Sources[1]	7.87	0.10	11.69	0.00	0.00	0.02	0.02	0.00	0.02	0.02
Stations Area Sources[2]	8.60	0.43	51.50	0.00	0.00	0.09	0.09	0.00	0.07	0.07
Mobile-VMT Analysis	8,974.91	88,806.03	622,414.25	3,482.15	406,300.84	2,044.02	408,344.86	103,409.64	1,933.34	105,342.98
Mobile-Employee Travel	0.52	1.19	7.39	0.03	3.88	0.02	3.90	0.99	0.02	1.01
Emergency Generators[3]	3.85	17.22	9.82	0.02	0.00	0.57	0.57	0.00	0.57	0.57
Alternative 5 Total Emissions	**8,995.75**	**88,824.96**	**622,494.64**	**3,482.21**	**406,304.72**	**2,044.72**	**408,349.44**	**103,410.63**	**1,934.01**	**105,344.64**
No Project Alternative Emissions[5]	8,987.16	88,927.26	623,263.93	3,486.90	406,855.50	2,046.81	408,902.31	103,550.81	1,935.97	105,486.79
Alternative 5 Net Change in Emissions	**8.60**	**-102.30**	**-769.29**	**-4.70**	**-550.78**	**-2.09**	**-552.87**	**-140.18**	**-1.97**	**-142.15**
SCAQMD Regional Significance Thresholds	55	55	550	150	N/A	N/A	150	N/A	N/A	55
Exceeds Threshold?	**No**	**No**	**No**	**No**			**No**			**No**

Notes:

MSF = Maintenance and Storage Facility

N/A = Not Applicable, no threshold for this pollutant.

1. Total emissions from MSF.
2. Total emissions from all stations.
3. The MSF would have 1 emergency generator. Alternative 5 has seven underground stations and backup power would be supplied by a battery system, no generators required.
4. In accordance with City of LA Municipal Code, all new buildings would be required to have all electric appliances for water and space heating, therefore no natural gas would be consumed during operations.
5. No Project Alternative emissions are related to mobile sources.

Daily Regional (Onsite + Offsite) Operational AQ Emissions

Alternative 5 (2045) Compared to Baseline (2021)

	Daily Emissions (lb/day)									
Source Category	**ROG**	**NO_X**	**CO**	**SO_X**	**PM_{10} Fugitive**	**PM_{10} Exhaust**	**PM_{10} Total**	**$PM_{2.5}$ Fugitive**	**$PM_{2.5}$ Exhaust**	**$PM_{2.5}$ Total**
MSF Area Sources[1]	7.87	0.10	11.69	0.00	0.00	0.02	0.02	0.00	0.02	0.02
Stations Area Sources[2]	8.60	0.43	51.50	0.00	0.00	0.09	0.09	0.00	0.07	0.07
Mobile-VMT Analysis	8,974.91	88,806.03	622,414.25	3,482.15	406,300.84	2,044.02	408,344.86	103,409.64	1,933.34	105,342.98
Mobile-Employee Travel	0.52	1.19	7.39	0.03	3.88	0.02	3.90	0.99	0.02	1.01
Emergency Generators[3]	3.85	17.22	9.82	0.02	0.00	0.57	0.57	0.00	0.57	0.57
Alternative 5 Total Emissions	**8,995.75**	**88,824.96**	**622,494.64**	**3,482.21**	**406,304.72**	**2,044.72**	**408,349.44**	**103,410.63**	**1,934.01**	**105,344.64**
Baseline Emissions[6]	27,490.34	222,015.82	1,219,500.95	3,920.27	325,836.60	3,379.36	329,215.96	82,877.61	3,173.58	86,051.19
Alternative 5 Net Change in Emissions	**-18,494.59**	**-133,190.86**	**-597,006.31**	**-438.06**	**80,468.12**	**-1,334.64**	**79,133.48**	**20,533.02**	**-1,239.58**	**19,293.44**
SCAQMD Regional Significance Thresholds	55	55	550	150	N/A	N/A	150	N/A	N/A	55
Exceeds Threshold?	**No**	**No**	**No**	**No**			**Yes**			**Yes**

Notes:

MSF = Maintenance and Storage Facility

N/A = Not Applicable, no threshold for this pollutant.

1. Total emissions from MSF.
2. Total emissions from all stations.
3. The MSF would have 1 emergency generator. Alternative 5 has seven underground stations and backup power would be supplied by a battery system, no generators required.
4. In accordance with City of LA Municipal Code, all new buildings would be required to have all electric appliances for water and space heating, therefore no natural gas would be consumed during operations.
5. It should be noted that the exceedances for PM10 and PM2.5 are a function of increased fugitive dust emissions related directly to growth in VMT from Baseline 2019 to Future 2045. Dust emission factors for tire wear, brake wear, and paved roads stay relatively constant over the 2019-2045 timeframe compared to engine process emissions factors which drastically decrease over this same time period due to compliance with vehicle emission standards.
6. Baseline emissions are related to mobile sources.

Daily Localized (Onsite) Operational AQ Emissions

Alternative 5 (2045)

	Daily Emissions (lb/day)			
Source Category	**NO_X**	**CO**	**PM_{10} Total**	**$PM_{2.5}$ Total**
MSF Area Sources[1]	0.10	11.69	0.02	0.02
Stations Area Sources[2]	0.43	51.50	0.09	0.07
Emergency Generators[3]	17.22	9.82	0.57	0.57
Alternative 5 Total Emissions	**17.75**	**73.00**	**0.68**	**0.65**
SCAQMD Localized Significance Thresholds[4]	172	1,434	3	2
Exceeds Threshold?	**No**	**No**	**No**	**No**

Notes:

MSF = Maintenance and Storage Facility

N/A = Not Applicable, no threshold for this pollutant.

1. Total emissions from main MSF and e-Bus MSF.

2. Total emissions from all stations.

3. The MSF would have 1 emergency generator. Alternative 5 has seven underground stations and backup power would be supplied by a battery system, no generators required.

4. The components of the alternative (MSF and stations) are located at different locations along the alternative alignment, therefore it was conservatively assumed that the total localized emissions from all components would occur within a 5-acre site, although in reality, the total acreage of all these components is far greater than 5 acres. The LSTs were developed for sites less than 5 acres, however, the LSTs were used to conduct a screening-level analysis for projects greater than 5 acres to determine if further refined analysis of local air quality impacts is required. Therefore, the LSTs for a 5-acre site were used to evaluate the alternative's local impacts. The localized analysis uses LST values based on a 5-acre site with a receptor distance of 25 meters. Also, because the components are located in different Source Receptor Areas (#2: North Coastal LA County & #7 East San Fernando Valley), the lowest LST values (i.e., strictest thresholds) between these SRAs were selected for each pollutant.

5. In accordance with City of LA Municipal Code, all new buildings would be required to have all electric appliances for water and space heating, therefore no natural gas would be consumed during operations.

6. In accordance with SCAQMD methodology, localized emissions do not include offsite sources such as mobile sources.

Localized Significance Threshold (LST) Values

		Operations LST Values for 5-Acre Site with 25 meter Receptor Distance			
Source Receptor Area (SRA) #	**SRA Name**	**NO_X**	**CO**	**PM_{10}**	**$PM_{2.5}$**
2	Northwest Coastal LA County	221	1,531	3	2
7	East San Fernando Valley	172	1,434	4	2
	Minimum LST Value	**172**	**1,434**	**3**	**2**

The components of the alternative (MSF and stations) are located at different locations along the alternative alignment, therefore it was conservatively assumed that the total localized emissions from all components would occur within a 5-acre site, although in reality, the total acreage of all these components is far greater than 5 acres. The LSTs were developed for sites less than 5 acres, however, the LSTs were used to conduct a screening-level analysis for projects greater than 5 acres to determine if further refined analysis of local air quality impacts is required. Therefore, the LSTs for a 5-acre site were used to evaluate the alternative's local impacts. The localized analysis uses LST values based on a 5-acre site with a receptor distance of 25 meters. Also, because the components are located in different Source Receptor Areas (#2: North Coastal LA County & #7 East San Fernando Valley), the lowest LST values (i.e., strictest thresholds) between these SRAs were selected for each pollutant.

Operations Annual Greenhouse Gas Emission Summaries

Annual GHG Emissions

Alternative 5 (2045) Compared to No Project Alternative (2045)

	Annual GHG Emissions ($MTCO_2e/yr$) by Component						
Source Category	**Track Alignment Electricity[1]**	**MSF[2]**	**Stations[3]**	**VMT Analysis**	**Employee Travel**	**Amortized Construction[4]**	**Total**
Area		5.47	24.10				29.57
Electricity	6,002.32	218.40	185.78				6,406.50
Mobile				57,110,765.75	557.44		57,111,323.19
Water		84.86	0.11				84.97
Waste		78.32					78.32
Refrigerants		0.08					0.08
Emergency Generators		44.82	0.00				44.82
Amortized Construction						12,048.60	12,048.60
Alternative 5 Total Emissions							57,130,016.0
No Project Alternative Emissions				**57,188,729.73**			**57,188,729.73**
Alternative 5 Net Change in Emissions							**-58,713.69**

Notes:

1. Electricity consumption values based on STCP's *Energy Consumption During Operations Report (HRT.PH3.3.6.10.k)*. Accounts for electricity consumption from all components (tracks, TPSS, stations, MSF, etc.).
2. Accounts for emissions related to MSF.
3. Accounts for emissions related to all stations.
4. Total construction emissions were amortized over the design lifetime of Alternative 5, which would be 100 years.
5. In accordance with City of LA Municipal Code, all new buildings would be required to have all electric appliances for water and space heating, therefore no natural gas would be consumed during operations.

6. No Project Alternative emissions are related to mobile sources.

Annual GHG Emissions

Alternative 5 (2045) Compared to Baseline (2021)

	Annual GHG Emissions ($MTCO_2e/yr$) by Component						
Source Category	**Track Alignment Electricity[1]**	**MSF[2]**	**Stations[3]**	**VMT Analysis**	**Employee Travel**	**Amortized Construction[4]**	**Total**
Area		5.47	24.10				29.57
Electricity	6,002.32	218.40	185.78				6,406.50
Mobile				57,110,765.75	557.44		57,111,323.19
Water		84.86	0.11				84.97
Waste		78.32					78.32
Refrigerants		0.08					0.08
Emergency Generators		44.82	0.00				44.82
Amortized Construction						12,048.60	12,048.60
Alternative 5 Total Emissions							57,130,016.0
Baseline Emissions				**64,691,321.96**			**64,691,321.96**
Alternative 5 Net Change in Emissions							**-7,561,305.92**

Notes:

1. Electricity consumption values based on STCP's *Energy Consumption During Operations Report (HRT.PH3.3.6.10.k)*. Accounts for electricity consumption from all components (tracks, TPSS, stations, MSF, etc.).
2. Accounts for emissions related to MSF.
3. Accounts for emissions related to all stations.
4. Total construction emissions were amortized over the design lifetime of Alternative 5, which would be 100 years.
5. In accordance with City of LA Municipal Code, all new buildings would be required to have all electric appliances for water and space heating, therefore no natural gas would be consumed during operations.

6. Baseline emissions are related to mobile sources.

Mobile Emissions

Mobile Emissions-Alternative 5 (2045) Compared to No Project Alternative (2045)

Scenario	Analysis Year	Daily VMT	Annual VMT[2]	Daily Emissions (lb/day)													
				ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
No Project Alternative-VMT Analysis[1]	2045	568,557,200	197,289,348,400	8,987.2	88,927.3	623,263.9	3,486.9	406,855.5	2,046.8	408,902.3	103,550.8	1,936.0	105,486.8	358,320,962.1	3,957.5	16,514.6
Alternative 5-VMT Analysis[1]	2045	567,782,100	197,020,388,700	8,974.9	88,806.0	622,414.2	3,482.2	406,300.8	2,044.0	408,344.9	103,409.6	1,933.3	105,343.0	357,832,472.0	3,952.1	16,492.1
Net Change		-775,100	-268,959,700	**-12.3**	**-121.2**	**-849.7**	**-4.8**	**-554.7**	**-2.8**	**-557.4**	**-141.2**	**-2.6**	**-143.8**	**-488,490.1**	**-5.4**	**-22.5**
Alternative 5-VMT from Employee Travel[3]	2045	5,423	1,881,642	0.5	1.2	7.4	0.0	3.9	0.02	3.9	1.0	0.02	1.0	3,486.2	0.1	0.2
Alternative 5 Net Mobile Emissions				**-11.7**	**-120.0**	**-842.3**	**-4.7**	**-550.8**	**-2.8**	**-553.5**	**-140.2**	**-2.6**	**-142.8**	**-485,003.9**	**-5.3**	**-22.3**

Notes:

VMT = vehicle miles traveled

1. Daily VMT values from Project Traffic Study.

2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.

3. Employee VMT based on number of employees, daily trips, and CalEEMod trip length for Non-Residential Home-Work Trip.

Mobile Emissions-Alternative 5 (2045) Compared to No Project Alternative (2045)

				Annual Emissions (tons/year)											Annual Emissions (metric tons)			
Scenario	**Analysis Year**	**Daily VMT**	**Annual VMT[2]**	**ROG**	**NO_X**	**CO**	**SO_X**	**PM_{10} Fugitive**	**PM_{10} Exhaust**	**PM_{10} Total**	**$PM_{2.5}$ Fugitive**	**$PM_{2.5}$ Exhaust**	**$PM_{2.5}$ Total**	**CO_2**	**CH_4**	**N_2O**	**CO_2e**
No Project Alternative-VMT Analysis[1]	2045	568,557,200	197,289,348,400	1,559.3	15,428.9	108,136.3	605.0	70,589.4	355.1	70,944.6	17,966.1	335.9	18,302.0	56,398,551.2	622.9	2,599.3	57,188,729.7
Alternative 5-VMT Analysis[1]	2045	567,782,100	197,020,388,700	1,557.1	15,407.8	107,988.9	604.2	70,493.2	354.6	70,847.8	17,941.6	335.4	18,277.0	56,321,664.4	622.0	2,595.8	57,110,765.7
	Net Change	-775,100	-268,959,700	**-2.1**	**-21.0**	**-147.4**	**-0.8**	**-96.2**	**-0.5**	**-96.7**	**-24.5**	**-0.5**	**-25.0**	**-76,886.8**	**-0.8**	**-3.5**	**-77,964.0**
Alternative 5-VMT from Employee Travel[3]	2045	5,423	1,881,642	0.09	0.2	1.3	0.01	0.7	0.00	0.7	0.2	0.00	0.2	548.7	0.01	0.0	557.4
			Alternative 5 Net Mobile Emissions	**-2.0**	**-20.8**	**-146.1**	**-0.8**	**-95.6**	**-0.5**	**-96.0**	**-24.3**	**-0.5**	**-24.8**	**-76,338.0**	**-0.8**	**-3.5**	**-77,406.5**

Notes:

VMT = vehicle miles traveled

1. Daily VMT values from Project Traffic Study.

2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.

3. Employee VMT based on number of employees, daily trips, and CalEEMod trip length for Non-Residential Home-Work Trip.

Mobile Emissions-Alternative 5 (2045) Compared to Baseline (2021)

Scenario	Analysis Year	Daily VMT	Annual VMT[2]	Daily Emissions (lb/day)[5]												
				ROG	NO_x	CO	SO_x	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Baseline-VMT Analysis[1]	2021	456,869,300	158,533,647,100	27,490.3	222,015.8	1,219,501.0	3,920.3	325,836.6	3,379.4	329,216.0	82,877.6	3,173.6	86,051.2	405,050,918.1	11,947.9	18,987.9
Alternative 5-VMT Analysis[1]	2045	567,782,100	197,020,388,700	8,974.9	88,806.0	622,414.2	3,482.2	406,300.8	2,044.0	408,344.9	103,409.6	1,933.3	105,343.0	357,832,472.0	3,952.1	16,492.1
	Net Change[3]	110,912,800	38,486,741,600	**-18,515.4**	**-133,209.8**	**-597,086.7**	**-438.1**	**80,464.2**	**-1,335.3**	**79,128.9**	**20,532.0**	**-1,240.2**	**19,291.8**	**-47,218,446.1**	**-7,995.8**	**-2,495.8**
Alternative 5-VMT from Employee Travel[4]	2045	5,423	1,881,642	0.5	1.2	7.4	0.0	3.9	0.0	3.9	1.0	0.0	1.0	3,486.2	0.1	0.2
			Alternative 5 Net Mobile Emissions	**-18,514.9**	**-133,208.6**	**-597,079.3**	**-438.1**	**80,468.1**	**-1,335.3**	**79,132.8**	**20,533.0**	**-1,240.2**	**19,292.8**	**-47,214,959.9**	**-7,995.8**	**-2,495.6**

Notes:

VMT = vehicle miles traveled

1. Daily VMT values from Project Traffic Study.
2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
3. Increase in VMT related to growth from 2021 to 2045.
4. Employee VMT based on number of employees, daily trips, and CalEEMod trip length for Non-Residential Home-Work Trip.
5. Increase in fugitive emissions is directly related to increase in VMT. Dust emission factors for tire wear, brake wear, and paved roads stay relatively constant over the 2021-2045 timeframe compared to engine process emissions factors which drastically decrease over this same time period due to compliance with vehicle emission standards.

Mobile Emissions-Alternative 5 (2045) Compared to Baseline (2021)

Scenario	Analysis Year	Daily VMT	Annual VMT[2]	Annual Emissions (tons/year)[5]										Annual Emissions (metric tons)			
				ROG	NO_x	CO	SO_x	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Baseline-VMT Analysis[1]	2021	456,869,300	158,533,647,100	4,769.6	38,519.7	211,583.4	680.2	56,532.7	586.3	57,119.0	14,379.3	550.6	14,929.9	63,753,693.9	1,880.6	2,988.6	64,691,322.0
Alternative 5-VMT Analysis[1]	2045	567,782,100	197,020,388,700	1,557.1	15,407.8	107,988.9	604.2	70,493.2	354.6	70,847.8	17,941.6	335.4	18,277.0	56,321,664.4	622.0	2,595.8	57,110,765.7
	Net Change[3]	110,912,800	38,486,741,600	**-3,212.4**	**-23,111.9**	**-103,594.5**	**-76.0**	**13,960.5**	**-231.7**	**13,728.9**	**3,562.3**	**-215.2**	**3,347.1**	**-7,432,029.5**	**-1,258.5**	**-392.8**	**-7,580,556.2**
Alternative 5-VMT from Employee Travel[4]	2045	5,423	1,881,642	0.1	0.2	1.3	0.0	0.7	0.0	0.7	0.2	0.0	0.2	548.7	0.0	0.0	557.4
			Alternative 5 Net Mobile Emissions	**-3,212.3**	**-23,111.7**	**-103,593.3**	**-76.0**	**13,961.2**	**-231.7**	**13,729.5**	**3,562.5**	**-215.2**	**3,347.3**	**-7,431,480.7**	**-1,258.5**	**-392.8**	**-7,579,998.8**

Notes:

VMT = vehicle miles traveled

1. Daily VMT values from Project Traffic Study.
2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
3. Increase in VMT related to growth from 2021 to 2045.
4. Employee VMT based on number of employees, daily trips, and CalEEMod trip length for Non-Residential Home-Work Trip.
5. Increase in fugitive emissions is directly related to increase in VMT. Dust emission factors for tire wear, brake wear, and paved roads stay relatively constant over the 2021-2045 timeframe compared to engine process emissions factors which drastically decrease over this same time period due to compliance with vehicle emission standards.

Mobile Emissions-Baseline (2021)

Alternative	Analysis Year	Daily VMT (miles/day)[1]	Days per Year[2]	Annual VMT (miles/year)	Running Emission Factor (grams/mile)[3,4]												
					ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Baseline	2021	456,869,300	347	158,533,647,100	0.0273	0.220	1.211	0.004	0.323	0.003	0.327	0.082	0.003	0.085	402.145	0.012	0.019

Notes:

1. Daily VMT values from Project Traffic Study.

2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
Source: CARB, 2008. Climate Change Draft Scoping Plan Appendices, Volume II: Analysis and Documentation.

3. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.

4. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.

5. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. CO_2 = 1; CH_4 = 25; N_2O = 298

Mobile Emissions-Baseline (2021)

Alternative	Analysis Year	Daily VMT (miles/day)[1]	Days per Year[2]	Annual VMT (miles/year)	Daily Emissions (lb/day)												
					ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Baseline	2021	456,869,300	347	158,533,647,100	27,490.3	222,015.8	1,219,501.0	3,920.3	325,836.6	3,379.4	329,216.0	82,877.6	3,173.6	86,051.2	405,050,918.1	11,947.9	18,987.9

Notes:

1. Daily VMT values from Project Traffic Study.

2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
Source: CARB, 2008. Climate Change Draft Scoping Plan Appendices, Volume II: Analysis and Documentation.

3. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.

4. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.

5. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. CO_2 = 1; CH_4 = 25; N_2O = 298

Mobile Emissions-Baseline (2021)

					Annual Emissions (tons/year)										Annual Emissions (metric tons)[5]			
Alternative	Analysis Year	Daily VMT (miles/day)[1]	Days per Year[2]	Annual VMT (miles/year)	ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Baseline	2021	456,869,300	347	158,533,647,100	4,769.6	38,519.7	211,583.4	680.2	56,532.7	586.3	57,119.0	14,379.3	550.6	14,929.9	63,753,693.9	1,880.6	2,988.6	64,691,322.0

Notes:

1. Daily VMT values from Project Traffic Study.

2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
Source: CARB, 2008. Climate Change Draft Scoping Plan Appendices, Volume II: Analysis and Documentation.

3. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.

4. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.

5. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. CO_2 = 1; CH_4 = 25; N_2O = 298

Mobile Emissions-No Project Alternative (2045)					Running Emission Factor (grams/mile)[3,4]												
Alternative	Analysis Year	Daily VMT (miles/day)[1]	Days per Year[2]	Annual VMT (miles/year)	ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
No Project	2045	568,557,200	347	197,289,348,400	0.01	0.07	0.50	0.003	0.32	0.002	0.33	0.08	0.002	0.08	285.87	0.003	0.01

Notes:

1. Daily VMT values from Project Traffic Study.
2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.

Source: CARB, 2008. Climate Change Draft Scoping Plan Appendices, Volume II: Analysis and Documentation.

3. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.
4. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
5. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. $CO_2 = 1$; $CH_4 = 25$; $N_2O = 298$

Mobile Emissions-No Project Alternative (2045)

Alternative	Analysis Year	Daily VMT (miles/day)[1]	Days per Year[2]	Annual VMT (miles/year)	Daily Emissions (lb/day)												
					ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
No Project	2045	568,557,200	347	197,289,348,400	8987.2	88927.3	623263.9	3486.9	406855.5	2046.8	408902.3	103550.8	1936.0	105486.8	358320962.1	3957.5	16514.6

Notes:

1. Daily VMT values from Project Traffic Study.
2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.

Source: CARB, 2008. Climate Change Draft Scoping Plan Appendices, Volume II: Analysis and Documentation.

3. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.
4. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
5. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. $CO_2 = 1$; $CH_4 = 25$; $N_2O = 298$

Mobile Emissions-No Project Alternative (2045)					Annual Emissions (tons/year)										Annual Emissions (metric tons)[5]			
Alternative	Analysis Year	Daily VMT (miles/day)[1]	Days per Year[2]	Annual VMT (miles/year)	ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
No Project	2045	568,557,200	347	197,289,348,400	1559.3	15428.9	108136.3	605.0	70589.4	355.1	70944.6	17966.1	335.9	18302.0	56398551.2	622.9	2599.3	57188729.7

Notes:

1. Daily VMT values from Project Traffic Study.
2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
Source: CARB, 2008. Climate Change Draft Scoping Plan Appendices, Volume II: Analysis and Documentation.
3. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.
4. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
5. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. $CO_2 = 1$; $CH_4 = 25$; $N_2O = 298$

Alternative 5 Mobile Emissions Summary (2045)

Scenario	Analysis Year	Daily VMT	Annual VMT	Daily Emissions (lb/day)												
				ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Alternative 5[1]	2045	567,782,100	197,020,388,700	8,974.9	88,806.0	622,414.2	3,482.2	406,300.8	2,044.0	408,344.9	103,409.6	1,933.3	105,343.0	357,832,472.0	3,952.1	16,492.1
Employee Travel to MSF[2]	2045	5,423	1,881,642	0.5	1.2	7.4	0.0	3.9	0.0	3.9	1.0	0.02	1.0	3,486.2	0.1	0.2
			Total Mobile Emissions	**8,975.4**	**88,807.2**	**622,421.6**	**3,482.2**	**406,304.7**	**2,044.0**	**408,348.8**	**103,410.6**	**1,933.4**	**105,344.0**	**357,835,958.2**	**3,952.1**	**16,492.3**

Notes:

VMT = vehicle miles traveled

1. Daily VMT values from Project Traffic Study.

2. Accounts for employee trips to and from Operations Maintenace and Storage Facilities (main MSF and e-Bus MSF).

Alternative 5 Mobile Emissions Summary (2045)

Scenario	Analysis Year	Daily VMT	Annual VMT	Annual Emissions (tons/year) ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	Annual Emissions (metric tons) CO_2	CH_4	N_2O	CO_2e
Alternative 5[1]	2045	567,782,100	197,020,388,700	1,557.1	15,407.8	107,988.9	604.2	70,493.2	354.6	70,847.8	17,941.6	335.4	18,277.0	56,321,664.4	622.0	2,595.8	57,110,765.7
Employee Travel to MSF[2]	2045	5,423	1,881,642	0.091	0.206	1.282	0.006	0.673	0.0035	0.677	0.171	0.0033	0.175	548.7	0.011	0.028	557.4
			Total Mobile Emissions	**1,557.2**	**15,408.1**	**107,990.2**	**604.2**	**70,493.9**	**354.6**	**70,848.5**	**17,941.7**	**335.4**	**18,277.2**	**56,322,213.1**	**622.1**	**2,595.8**	**57,111,323.2**

Notes:

VMT = vehicle miles traveled

1. Daily VMT values from Project Traffic Study.

2. Accounts for employee trips to and from Operations Maintenace and Storage Facilities (main MSF and e-Bus MSF).

Mobile Emissions-Alternative 5 VMT Analysis (2045)

Alternative	Analysis Year	Daily VMT (miles/day)[1]	Days per Year[2]	Annual VMT (miles/year)	Running Emission Factor (grams/mile)[3,4]												
					ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Alternative 5	2045	567,782,100	347	197,020,388,700	0.007	0.071	0.497	0.003	0.325	0.002	0.326	0.083	0.002	0.084	285.867	0.003	0.013

Notes:

1. Daily VMT values from Project Traffic Study.
2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
Source: CARB, 2008. Climate Change Draft Scoping Plan Appendices, Volume II: Analysis and Documentation.
3. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.
4. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
5. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. CO_2 = 1; CH_4 = 25; N_2O = 298

Mobile Emissions-Alternative 5 VMT Analysis (2045)

Alternative	Analysis Year	Daily VMT (miles/day)[1]	Days per Year[2]	Annual VMT (miles/year)	Daily Emissions (lb/day)												
					ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Alternative 5	2045	567,782,100	347	197,020,388,700	8974.9	88806.0	622414.2	3482.2	406300.8	2044.0	408344.9	103409.6	1933.3	105343.0	357832472.0	3952.1	16492.1

Notes:

1. Daily VMT values from Project Traffic Study.
2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
Source: CARB, 2008. Climate Change Draft Scoping Plan Appendices, Volume II: Analysis and Documentation.
3. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.
4. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
5. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. $CO_2 = 1$; $CH_4 = 25$; $N_2O = 298$

Mobile Emissions-Alternative 5 VMT Analysis (2045)

					Annual Emissions (tons/year)										Annual Emissions (metric tons)[5]			
Alternative	Analysis Year	Daily VMT (miles/day)[1]	Days per Year[2]	Annual VMT (miles/year)	ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Alternative 5	2045	567,782,100	347	197,020,388,700	1557.1	15407.8	107988.9	604.2	70493.2	354.6	70847.8	17941.6	335.4	18277.0	56321664.4	622.0	2595.8	57110765.7

Notes:

1. Daily VMT values from Project Traffic Study.
2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
Source: CARB, 2008. Climate Change Draft Scoping Plan Appendices, Volume II: Analysis and Documentation.
3. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.
4. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
5. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. CO_2 = 1; CH_4 = 25; N_2O = 298

Mobile Emissions-Employee Travel (2045)

Alternative	Analysis Year	Employees per day[1]	Daily One-Way Trips[2]	One-Way Trip Length (miles)[3]	Daily VMT (miles/day)	Days per Year[4]	Trips per Year	Annual VMT (miles/year)	Running Emission Factor (grams/mile)[5,6]												
									ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Alternative 5	2045	190	380	14.3	5,423	347	131,860	1,881,642	0.01	0.07	0.50	0.003	0.32	0.002	0.33	0.08	0.002	0.08	285.87	0.003	0.01

Notes:

1. Data provided by STCP team.
2. Accounts for employee trips to and from main MSF and e-Bus MSF.
3. Trip length based on CalEEMod default value for Non-Residential Home-Work trip length for Commercial Building.
4. Annual miles and trips are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
   Source: CARB, 2008. Climate Change Draft Scoping Plan
5. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.
6. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
7. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
8. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. $CO_2 = 1$; $CH_4 = 25$; $N_2O = 298$

Mobile Emissions-Employee Travel (2045)

Alternative	Analysis Year	Employees per day[1]	Daily One-Way Trips[2]	One-Way Trip Length (miles)[3]	Daily VMT (miles/day)	Days per Year[4]	Trips per Year	Annual VMT (miles/year)	Non-Running Emission Factor (grams/trip)[5,7]												
									ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Alternative 5	2045	190	380	14.3	5,423	347	131,860	1,881,642	0.52	0.41	1.73	0.00	-	0.00	0.00	-	0.00	0.00	82.01	0.03	0.03

Notes:

1. Data provided by STCP team.
2. Accounts for employee trips to and from main MSF and e-Bus MSF.
3. Trip length based on CalEEMod default value for Non-Residential Home-Work trip length for Commercial Building.
4. Annual miles and trips are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
Source: CARB, 2008. Climate Change Draft Scoping Plan
5. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.
6. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
7. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
8. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. CO_2 = 1; CH_4 = 25; N_2O = 298

Mobile Emissions-Employee Travel (2045)

Alternative	Analysis Year	Employees per day[1]	Daily One-Way Trips[2]	One-Way Trip Length (miles)[3]	Daily VMT (miles/day)	Days per Year[4]	Trips per Year	Annual VMT (miles/year)	Daily Emissions (lb/day)													
									ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Alternative 5	2045	190	380	14.3	5,423	347	131,860	1,881,642	0.52	1.19	7.39	0.03	3.88	0.02	3.90	0.99	0.02	1.01	3486.18	0.07	0.18

Notes:

1. Data provided by STCP team.
2. Accounts for employee trips to and from main MSF and e-Bus MSF.
3. Trip length based on CalEEMod default value for Non-Residential Home-Work trip length for Commercial Building.
4. Annual miles and trips are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
   Source: CARB, 2008. Climate Change Draft Scoping Plan
5. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.
6. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
7. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
8. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. $CO_2 = 1$; $CH_4 = 25$; $N_2O = 298$

Mobile Emissions-Employee Travel (2045)

Alternative	Analysis Year	Employees per day[1]	Daily One-Way Trips[2]	One-Way Trip Length (miles)[3]	Daily VMT (miles/day)	Days per Year[4]	Trips per Year	Annual VMT (miles/year)	Annual Emissions (tons/year)										Annual Emissions (metric tons)[8]			
									ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Alternative 5	2045	190	380	14.3	5,423	347	131,860	1,881,642	0.091	0.206	1.282	0.006	0.673	0.004	0.677	0.171	0.003	0.175	548.7	0.011	0.028	557.4

Notes:

1. Data provided by STCP team.
2. Accounts for employee trips to and from main MSF and e-Bus MSF.
3. Trip length based on CalEEMod default value for Non-Residential Home-Work trip length for Commercial Building.
4. Annual miles and trips are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
Source: CARB, 2008. Climate Change Draft Scoping Plan
5. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.
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8. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. CO_2 = 1; CH_4 = 25; N_2O = 298

Daily Paved Road Dust Emission Factor[1]

$$E_{ext} = [\, k\,(sL)^{0.91} \times (W)^{1.02} \,]\,(1 - P/4N)$$

Parameter	Description	Source:
E_{ext}	Annual or other long-term average emission factor in the same units as k	USEPA AP-42, Paved Roads Methodology
k	Particle size multiplier for particle size range and units of interest	CalEEMod Default Value
sL	road surface silt loading (g/m^2)	CalEEMod Default Value
W	average weight (tons) of all the vehicles raveling the road (2.4 tons)	CalEEMod Default Value
P	Number of "wet" days with at least 0.254 mm (0.01 in) of precipitation during the averaging period	Avg of CalEEMod default values for Van Nuys and Santa Monica
N	Number of days in the averaging period (e.g. 365 for annual, 91 for seasonal, 30 for monthly)	CalEEMod Default Value

Parameters	PM_{10}	$PM_{2.5}$
k (g/VMT)	1.000	0.250
sL (g/m^2)	0.1	0.1
W (tons)	2.4	2.4
P ("wet" days)[2]	19.1	19.1
N (days per year)	365	365
EF without natural dust control (precipitation) (g/mi)	3.00E-01	7.51E-02

Notes:

1. AP42, Section 13.2.1 Paved Roads, January 2011
2. Consistent with Appendix C of the CalEEMod User's Guide, daily road dust emission factors do not account for a precipitation adjustment.

MSF Operations CalEEMod Output Report (MSF Operations are the same for Alt 4 and Alt 5)

STC Alt 4 & Alt 5 MSF Operations Detailed Report

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5.10.3. Landscape Equipment

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5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	STC Alt 4 & Alt 5 MSF Operations
Operational Year	2045
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	18.6
Location	34.1614082382909, -118.46737205425525
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	3863
EDFZ	17
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.24

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
General Office Building	202	1000sqft	2.32	202,000	5,050	—	—	—

Unrefrigerated Warehouse-No Rail	66.8	1000sqft	1.53	66,800	3,340	—	—	—
Parking Lot	12.7	Acre	12.7	0.00	27,585	—	—	—
Other Non-Asphalt Surfaces	26.9	Acre	26.9	0.00	58,550	—	—	—
City Park	2.60	Acre	2.60	0.00	113,256	113,256	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	8.03	7.87	0.10	11.7	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	234	1,458	1,691	23.6	0.24	0.49	2,354
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.95	5.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	234	1,410	1,643	23.6	0.24	0.49	2,305
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	7.38	7.27	0.07	8.01	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	234	1,443	1,676	23.6	0.24	0.49	2,338
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.35	1.33	0.01	1.46	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	38.7	239	278	3.91	0.04	0.08	387

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	8.03	7.87	0.10	11.7	< 0.005	0.02	—	0.02	0.02	—	0.02	—	48.1	48.1	< 0.005	< 0.005	—	48.2
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	1,319	1,319	0.00	0.00	—	1,319
Water	—	—	—	—	—	—	—	—	—	—	—	98.4	90.5	189	10.1	0.24	—	513
Waste	—	—	—	—	—	—	—	—	—	—	—	135	0.00	135	13.5	0.00	—	473
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.49	0.49
Total	8.03	7.87	0.10	11.7	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	234	1,458	1,691	23.6	0.24	0.49	2,354
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	5.95	5.95	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	1,319	1,319	0.00	0.00	—	1,319
Water	—	—	—	—	—	—	—	—	—	—	—	98.4	90.5	189	10.1	0.24	—	513
Waste	—	—	—	—	—	—	—	—	—	—	—	135	0.00	135	13.5	0.00	—	473
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.49	0.49
Total	5.95	5.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	234	1,410	1,643	23.6	0.24	0.49	2,305
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	7.38	7.27	0.07	8.01	< 0.005	0.01	—	0.01	0.01	—	0.01	—	32.9	32.9	< 0.005	< 0.005	—	33.0
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	1,319	1,319	0.00	0.00	—	1,319
Water	—	—	—	—	—	—	—	—	—	—	—	98.4	90.5	189	10.1	0.24	—	513

Waste	—	—	—	—	—	—	—	—	—	—	—	135	0.00	135	13.5	0.00	—	473
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.49	0.49
Total	7.38	7.27	0.07	8.01	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	234	1,443	1,676	23.6	0.24	0.49	2,338
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	1.35	1.33	0.01	1.46	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.45	5.45	< 0.005	< 0.005	—	5.47
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	218	218	0.00	0.00	—	218
Water	—	—	—	—	—	—	—	—	—	—	—	16.3	15.0	31.3	1.67	0.04	—	84.9
Waste	—	—	—	—	—	—	—	—	—	—	—	22.4	0.00	22.4	2.24	0.00	—	78.3
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.08	0.08
Total	1.35	1.33	0.01	1.46	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	38.7	239	278	3.91	0.04	0.08	387

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	1,053	1,053	0.00	0.00	—	1,053
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	150	150	0.00	0.00	—	150
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	117	117	0.00	0.00	—	117
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,319	1,319	0.00	0.00	—	1,319

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	1,053	1,053	0.00	0.00	—	1,053
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	150	150	0.00	0.00	—	150
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	117	117	0.00	0.00	—	117
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,319	1,319	0.00	0.00	—	1,319
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	174	174	0.00	0.00	—	174
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	24.8	24.8	0.00	0.00	—	24.8
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	19.3	19.3	0.00	0.00	—	19.3
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	218	218	0.00	0.00	—	218

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	5.95	5.95	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landsca Equipment	2.08	1.92	0.10	11.7	< 0.005	0.02	—	0.02	0.02	—	0.02	—	48.1	48.1	< 0.005	< 0.005	—	48.2
Total	8.03	7.87	0.10	11.7	< 0.005	0.02	—	0.02	0.02	—	0.02	—	48.1	48.1	< 0.005	< 0.005	—	48.2
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consum er Products	5.95	5.95	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	5.95	5.95	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consum er Products	1.09	1.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landsca pe Equipme nt	0.26	0.24	0.01	1.46	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.45	5.45	< 0.005	< 0.005	—	5.47
Total	1.35	1.33	0.01	1.46	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.45	5.45	< 0.005	< 0.005	—	5.47

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	68.8	59.0	128	7.05	0.17	—	354

Unrefrigerated	—	—	—	—	—	—	—	—	—	—	—	29.6	25.4	55.0	3.04	0.07	—	152
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.49	0.49	0.00	0.00	—	0.49
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	1.05	1.05	0.00	0.00	—	1.05
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	4.52	4.52	0.00	0.00	—	4.52
Total	—	—	—	—	—	—	—	—	—	—	—	98.4	90.5	189	10.1	0.24	—	513
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	68.8	59.0	128	7.05	0.17	—	354
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	29.6	25.4	55.0	3.04	0.07	—	152
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.49	0.49	0.00	0.00	—	0.49
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	1.05	1.05	0.00	0.00	—	1.05
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	4.52	4.52	0.00	0.00	—	4.52
Total	—	—	—	—	—	—	—	—	—	—	—	98.4	90.5	189	10.1	0.24	—	513
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	11.4	9.77	21.2	1.17	0.03	—	58.6

Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	4.90	4.21	9.11	0.50	0.01	—	25.2
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.08	0.08	0.00	0.00	—	0.08
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.17	0.17	0.00	0.00	—	0.17
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.75	0.75	0.00	0.00	—	0.75
Total	—	—	—	—	—	—	—	—	—	—	—	16.3	15.0	31.3	1.67	0.04	—	84.9

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	101	0.00	101	10.1	0.00	—	354
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	33.8	0.00	33.8	3.38	0.00	—	118
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

City Park	—	—	—	—	—	—	—	—	—	—	—	0.12	0.00	0.12	0.01	0.00	—	0.42
Total	—	—	—	—	—	—	—	—	—	—	—	135	0.00	135	13.5	0.00	—	473
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	101	0.00	101	10.1	0.00	—	354
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	33.8	0.00	33.8	3.38	0.00	—	118
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	0.12	0.00	0.12	0.01	0.00	—	0.42
Total	—	—	—	—	—	—	—	—	—	—	—	135	0.00	135	13.5	0.00	—	473
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	16.8	0.00	16.8	1.68	0.00	—	58.6
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	5.60	0.00	5.60	0.56	0.00	—	19.6
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
City Park	—	—	—	—	—	—	—	—	—	—	—	0.02	0.00	0.02	< 0.005	0.00	—	0.07

Total	—	—	—	—	—	—	—	—	—	—	—	22.4	0.00	22.4	2.24	0.00	—	78.3

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.49	0.49
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.49	0.49
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.49	0.49
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.49	0.49
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.08	0.08
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.08	0.08

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
—	—	—	—	—

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00

Summer Days	day/yr	250

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
General Office Building	4,367,944	88.0	0.0000	0.0000	0.00
Unrefrigerated Warehouse-No Rail	620,146	88.0	0.0000	0.0000	0.00
Parking Lot	483,469	88.0	0.0000	0.0000	0.00
Other Non-Asphalt Surfaces	0.00	88.0	0.0000	0.0000	0.00
City Park	0.00	88.0	0.0000	0.0000	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Office Building	35,902,217	70,824
Unrefrigerated Warehouse-No Rail	15,447,500	46,842
Parking Lot	0.00	386,868
Other Non-Asphalt Surfaces	0.00	821,139
City Park	0.00	3,529,707

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)

General Office Building	188	—
Unrefrigerated Warehouse-No Rail	62.8	—
Parking Lot	0.00	—
Other Non-Asphalt Surfaces	0.00	—
City Park	0.22	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
City Park	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
City Park	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	15.4	annual days of extreme heat
Extreme Precipitation	7.15	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	2	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	2	1	1	3
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	80.0
AQ-PM	68.9
AQ-DPM	79.9

Drinking Water	83.1
Lead Risk Housing	43.8
Pesticides	0.00
Toxic Releases	64.7
Traffic	99.8
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	14.3
Haz Waste Facilities/Generators	40.9
Impaired Water Bodies	77.3
Solid Waste	0.00
Sensitive Population	—
Asthma	37.7
Cardio-vascular	69.7
Low Birth Weights	73.3
Socioeconomic Factor Indicators	—
Education	23.7
Housing	57.4
Linguistic	25.6
Poverty	28.2
Unemployment	74.1

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	75.74746567

Employed	87.75824458
Median HI	58.59104324
Education	—
Bachelor's or higher	84.51174131
High school enrollment	100
Preschool enrollment	95.7141024
Transportation	—
Auto Access	45.25856538
Active commuting	52.31618119
Social	—
2-parent households	93.32734505
Voting	0.654433466
Neighborhood	—
Alcohol availability	29.15436931
Park access	23.72642115
Retail density	81.59887078
Supermarket access	31.14333376
Tree canopy	66.90619787
Housing	—
Homeownership	39.93327345
Housing habitability	38.27794174
Low-inc homeowner severe housing cost burden	10.18863082
Low-inc renter severe housing cost burden	48.80020531
Uncrowded housing	96.93314513
Health Outcomes	—
Insured adults	46.81124086
Arthritis	73.2

Asthma ER Admissions	67.3
High Blood Pressure	79.9
Cancer (excluding skin)	30.9
Asthma	69.3
Coronary Heart Disease	77.0
Chronic Obstructive Pulmonary Disease	79.3
Diagnosed Diabetes	89.8
Life Expectancy at Birth	81.3
Cognitively Disabled	93.6
Physically Disabled	55.6
Heart Attack ER Admissions	14.6
Mental Health Not Good	73.6
Chronic Kidney Disease	85.5
Obesity	67.3
Pedestrian Injuries	79.9
Physical Health Not Good	81.0
Stroke	80.6
Health Risk Behaviors	—
Binge Drinking	10.6
Current Smoker	71.8
No Leisure Time for Physical Activity	90.4
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	64.0
Elderly	56.5
English Speaking	57.1

Foreign-born	53.9
Outdoor Workers	52.2
Climate Change Adaptive Capacity	—
Impervious Surface Cover	44.9
Traffic Density	98.7
Traffic Access	72.0
Other Indices	—
Hardship	11.1
Other Decision Support	—
2016 Voting	42.4

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	65.0
Healthy Places Index Score for Project Location (b)	67.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Characteristics: Utility Information	This is a forecasted CO2e Intensity Factor for LADWP in 2045. SB100 will require electricity provided to customers to be from 100% renewable sources by 2045. SB100 allows for the use of renewable energy credits, which allows for natural gas to provide up to 10% of power generation, therefore the CO2e Intensity Factor accounts for some electricity generated from natural gas. Because it is a CO2e intensity factor, intensity factors for CH4 and N2O were zeroed-out.
Land Use	For all non-park land uses, it was assumed 5 percent of lot acreage would be landscaped.
Operations: Vehicle Data	Mobile emissions for employees at MSF calculated outside of CalEEMod.
Operations: Energy Use	For Office Buildings and other MSF buildings categorized as Unrefrigerated Warehouse, CalEEMod generated default annual electricity (kWh) and natural gas consumption in kBTU/year, however, in accordance with the City of LA Municipal Code, all new buildings would be required to be all-electric buildings. Therefore, the annual natural gas consumption value (kBTU) was converted to kWh to account for the additional electricity consumption that is substituted for natural gas, and then added to the default electricity consumption value.

Station Operations CalEEMod Output Report

STC Alt 5-Station Operation Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	STC Alt 5-Station Operation
Operational Year	2045
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	18.6
Location	34.16146855010575, -118.46740417140994
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	3863
EDFZ	17
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.24

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Enclosed Parking with Elevator	1,184	1000sqft	9.39	1,184,000	20,450	—	—	—

Parking Lot	324	1000sqft	7.43	0.00	16,182	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	9.31	8.60	0.43	51.5	< 0.005	0.09	0.00	0.09	0.07	0.00	0.07	0.00	1,335	1,335	0.01	< 0.005	0.00	1,335
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.14	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1,123	1,123	0.00	0.00	0.00	1,123
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6.42	5.94	0.30	35.3	< 0.005	0.06	0.00	0.06	0.05	0.00	0.05	0.00	1,268	1,268	0.01	< 0.005	0.00	1,268
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.17	1.08	0.05	6.44	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	210	210	< 0.005	< 0.005	0.00	210

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	9.31	8.60	0.43	51.5	< 0.005	0.09	—	0.09	0.07	—	0.07	—	212	212	0.01	< 0.005	—	213
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	1,122	1,122	0.00	0.00	—	1,122
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.66	0.66	0.00	0.00	—	0.66
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	9.31	8.60	0.43	51.5	< 0.005	0.09	0.00	0.09	0.07	0.00	0.07	0.00	1,335	1,335	0.01	< 0.005	0.00	1,335
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	0.14	0.14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	1,122	1,122	0.00	0.00	—	1,122
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.66	0.66	0.00	0.00	—	0.66
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	0.14	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1,123	1,123	0.00	0.00	0.00	1,123
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	6.42	5.94	0.30	35.3	< 0.005	0.06	—	0.06	0.05	—	0.05	—	145	145	0.01	< 0.005	—	146
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	1,122	1,122	0.00	0.00	—	1,122
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.66	0.66	0.00	0.00	—	0.66
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	6.42	5.94	0.30	35.3	< 0.005	0.06	0.00	0.06	0.05	0.00	0.05	0.00	1,268	1,268	0.01	< 0.005	0.00	1,268
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	1.17	1.08	0.05	6.44	< 0.005	0.01	—	0.01	0.01	—	0.01	—	24.0	24.0	< 0.005	< 0.005	—	24.1

Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	186	186	0.00	0.00	—	186
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.11	0.11	0.00	0.00	—	0.11
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	1.17	1.08	0.05	6.44	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	210	210	< 0.005	< 0.005	0.00	210

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	1,054	1,054	0.00	0.00	—	1,054
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	68.4	68.4	0.00	0.00	—	68.4
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,122	1,122	0.00	0.00	—	1,122
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	1,054	1,054	0.00	0.00	—	1,054

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	68.4	68.4	0.00	0.00	—	68.4
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,122	1,122	0.00	0.00	—	1,122
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	174	174	0.00	0.00	—	174
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	11.3	11.3	0.00	0.00	—	11.3
Total	—	—	—	—	—	—	—	—	—	—	—	—	186	186	0.00	0.00	—	186

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.08	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	9.17	8.46	0.43	51.5	< 0.005	0.09	—	0.09	0.07	—	0.07	—	212	212	0.01	< 0.005	—	213
Total	9.31	8.60	0.43	51.5	< 0.005	0.09	—	0.09	0.07	—	0.07	—	212	212	0.01	< 0.005	—	213

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.08	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.14	0.14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.15	1.06	0.05	6.44	< 0.005	0.01	—	0.01	0.01	—	0.01	—	24.0	24.0	< 0.005	< 0.005	—	24.1
Total	1.17	1.08	0.05	6.44	< 0.005	0.01	—	0.01	0.01	—	0.01	—	24.0	24.0	< 0.005	< 0.005	—	24.1

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.37	0.37	0.00	0.00	—	0.37
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.29	0.29	0.00	0.00	—	0.29
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.66	0.66	0.00	0.00	—	0.66
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.37	0.37	0.00	0.00	—	0.37
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.29	0.29	0.00	0.00	—	0.29
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.66	0.66	0.00	0.00	—	0.66
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.06	0.06	0.00	0.00	—	0.06
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.05	0.05	0.00	0.00	—	0.05
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.11	0.11	0.00	0.00	—	0.11

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	18,406	2,045	43,960

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Enclosed Parking with Elevator	4,370,655	88.0	0.0000	0.0000	0.00
Parking Lot	283,513	88.0	0.0000	0.0000	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Enclosed Parking with Elevator	0.00	286,803
Parking Lot	0.00	226,946

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Enclosed Parking with Elevator	0.00	—
Parking Lot	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	15.4	annual days of extreme heat
Extreme Precipitation	7.15	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth

Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	2	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	2	1	1	3

Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	80.0
AQ-PM	68.9
AQ-DPM	79.9
Drinking Water	83.1
Lead Risk Housing	43.8
Pesticides	0.00
Toxic Releases	64.7
Traffic	99.8

Effect Indicators	—
CleanUp Sites	0.00
Groundwater	14.3
Haz Waste Facilities/Generators	40.9
Impaired Water Bodies	77.3
Solid Waste	0.00
Sensitive Population	—
Asthma	37.7
Cardio-vascular	69.7
Low Birth Weights	73.3
Socioeconomic Factor Indicators	—
Education	23.7
Housing	57.4
Linguistic	25.6
Poverty	28.2
Unemployment	74.1

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	75.74746567
Employed	87.75824458
Median HI	58.59104324
Education	—
Bachelor's or higher	84.51174131
High school enrollment	100

Preschool enrollment	95.7141024
Transportation	—
Auto Access	45.25856538
Active commuting	52.31618119
Social	—
2-parent households	93.32734505
Voting	0.654433466
Neighborhood	—
Alcohol availability	29.15436931
Park access	23.72642115
Retail density	81.59887078
Supermarket access	31.14333376
Tree canopy	66.90619787
Housing	—
Homeownership	39.93327345
Housing habitability	38.27794174
Low-inc homeowner severe housing cost burden	10.18863082
Low-inc renter severe housing cost burden	48.80020531
Uncrowded housing	96.93314513
Health Outcomes	—
Insured adults	46.81124086
Arthritis	73.2
Asthma ER Admissions	67.3
High Blood Pressure	79.9
Cancer (excluding skin)	30.9
Asthma	69.3
Coronary Heart Disease	77.0

Chronic Obstructive Pulmonary Disease	79.3
Diagnosed Diabetes	89.8
Life Expectancy at Birth	81.3
Cognitively Disabled	93.6
Physically Disabled	55.6
Heart Attack ER Admissions	14.6
Mental Health Not Good	73.6
Chronic Kidney Disease	85.5
Obesity	67.3
Pedestrian Injuries	79.9
Physical Health Not Good	81.0
Stroke	80.6
Health Risk Behaviors	—
Binge Drinking	10.6
Current Smoker	71.8
No Leisure Time for Physical Activity	90.4
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	64.0
Elderly	56.5
English Speaking	57.1
Foreign-born	53.9
Outdoor Workers	52.2
Climate Change Adaptive Capacity	—
Impervious Surface Cover	44.9
Traffic Density	98.7

Traffic Access	72.0
Other Indices	—
Hardship	11.1
Other Decision Support	—
2016 Voting	42.4

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	65.0
Healthy Places Index Score for Project Location (b)	67.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification

Characteristics: Utility Information	This is a forecasted CO2e Intensity Factor for LADWP in 2045. SB100 will require electricity provided to customers to be from 100% renewable sources by 2045. SB100 allows for the use of renewable energy credits, which allows for natural gas to provide up to 10% of power generation, therefore the CO2e Intensity Factor accounts for some electricity generated from natural gas. Because it is a CO2e intensity factor, intensity factors for CH4 and N2O were zeroed-out.
Land Use	CalEEMod does not have train station land use types, therefore, stations were represented using the "Enclosed Parking with Elevators" land use type. This land use type was selected because it accounts for electricity consumption from elevators and ventilation systems. Although aerial stations would not be enclosed, this land use type would result in a conservative estimate of electricity consumption. The building area represents the station area for all stations in this alternative. It was also assumed 5 percent of the lot acreage would be landscaped.

Alignment Electricity Consumption

Alternatives 4 and 5 Electricity Consumption

Approximate Estimates of Overall Power Consumption of Transit System

Load Type	Location	Alt 4 Annual Avg Energy Consumption (kWh)	Alt 5 Annual Avg Energy Consumption (kWh)
Mechanical, Electrical, and Plumbing (MEP)	E-Line/Sepulveda	7,089,690	7,089,690
	Santa Monica Blvd	7,089,690	7,089,690
	Wilshire/Westwood	7,089,690	7,089,690
	UCLA	7,089,690	7,089,690
	Santa Monica Mountains Tunnel	3,942,000	3,942,000
	Sepulveda Ventura	1,556,543	7,089,690
	Metro G-Line	1,556,543	7,089,690
	Sherman Way	1,556,543	7,089,690
	Van Nuys	1,556,543	1,556,543
	MSF	7,884,000	7,884,000
Traction Power and Rolling Stock Aux Power	Mainline	71,062,491	71,062,491
	MSF	16,226,078	16,226,078
	Total	**133,699,501**	**150,298,942**

GHG Emissions from Electricity Consumption

STCP Alternatives	Annual Consumption (MWh)	2045 LADWP CO_2e Intensity Factor (lb/MWh)[2]	Annual GHG Emissions ($MTCO_2e$/yr)
Alternative 4	133,699.50	88.0	5339.4
Alternative 5	150,298.94	88.0	6002.3

Notes:

1. Electricity consumption values based on STCP's Energy Consumption During Operations Report (HRT.PH3.3.6.10.k).

2. This is a forecasted CO_2e Intensity Factor for LADWP in 2045. SB100 will require electricity provided to customers to be from 100%renewable sources by 2045. SB100 allows for the use of renewable energy credits, thus allowing for the combustion of natural gas to provide up to 10% of generation, thus the CO_2e Intensity Factor accounts for some electricity generated from natural gas.

lb = pound
kWh = kilowatt-hour
MWh = Megawatt-hour
Conversion Factor (lb to MT): 2204.62

Emergency Generator Emissions

Emergency Generators

Generator Data

Parameter	Value
Rating (MW):	1.5
Rating (kVA):	1875
Horsepower (HP)[3]:	2346

										Emission Factor (g/bhp-hr)[5]														
Alternative	Generator Scenario	# of UG Stations	Generators per UG Station	# of Generators	M&T Daily Use per Generator (hours/day)	Annual M&T Usage (hour/year)[2]	Total Annual Tesing Hours (hours/year)	HP[3]	Load Factor[4]	ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Alternative 4 & 5	Underground Stations-SEE NOTE	4	1	-	1	50	-	2,346	0.73	1.02	4.56	2.60	0.005	-	0.15	0.15	-	0.15	0.15	521.64	0.0209	0.0041
Alternative 4 & 5	MSF	n/a	n/a	1	1	50	50	2,346	0.73	1.02	4.56	2.60	0.005	-	0.15	0.15	-	0.15	0.15	521.64	0.0209	0.0041

Notes:

M&T = Maintenance and Testing

1. MSF would require an emergency generator.
2. SCAQMD 2021, Rule 1470. Generators shall not operate more than 50 hours per year for maintenance and testing.
3. HP obtained from spec sheet for Generac Diesel Generator-SD1500 (1875 kVA)
4. Load factor is based on CalEEMod default value for emergency generators.
5. Emission factors are based on CalEEMod default values for emergency generators.
6. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. $CO_2 = 1$; $CH_4 = 25$; $N_2O = 298$
7. Based on designs for Emergency and Uninterruptible Power Supply, backup power for alignment components would be supplied by a battery system and would not require diesel generators.

Emergency Generators

Generator Data

Parameter	Value
Rating (MW):	1.5
Rating (kVA):	1875
Horsepower (HP)[3]:	2346

										Daily Emissions (lb/day)													
Alternative	**Generator Scenario**	**# of UG Stations**	**Generators per UG Station**	**# of Generators**	**M&T Daily Use per Generator (hours/day)**	**Annual M&T Usage (hour/year)[2]**	**Total Annual Tesing Hours (hours/year)**	**HP[3]**	**Load Factor[4]**	**ROG**	**NO_X**	**CO**	**SO_X**	**PM_{10} Fugitive**	**PM_{10} Exhaust**	**PM_{10} Total**	**$PM_{2.5}$ Fugitive**	**$PM_{2.5}$ Exhaust**	**$PM_{2.5}$ Total**	**CO_2**	**CH_4**	**N_2O**
Alternative 4 & 5	Underground Stations-SEE NOTE	4	1	-	1	50	-	2,346	0.73	-	-	-	-	-	-	-	-	-	-	-	-	-
Alternative 4 & 5	MSF	n/a	n/a	1	1	50	50	2,346	0.73	3.85	17.22	9.82	0.02	-	0.57	0.57	-	0.57	0.57	1969.5	0.08	0.02
										3.85	17.22	9.82	0.02	-	0.57	0.57	-	0.57	0.57	1969.50	0.08	0.02

Notes:

M&T = Maintenance and Testing

1. MSF would require an emergency generator.
2. SCAQMD 2021, Rule 1470. Generators shall not operate more than 50 hours per year for maintenance and testing.
3. HP obtained from spec sheet for Generac Diesel Generator-SD1500 (1875 kVA)
4. Load factor is based on CalEEMod default value for emergency generators.
5. Emission factors are based on CalEEMod default values for emergency generators.
6. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. CO_2 = 1; CH_4 = 25; N_2O = 298
7. Based on designs for Emergency and Uninterruptible Power Supply, backup power for alignment components would be supplied by a battery system and would not require diesel generators.

Emergency Generators

Generator Data

Parameter	Value
Rating (MW):	1.5
Rating (kVA):	1875
Horsepower (HP)[3]:	2346

										Annual Emissions (tons)										Annual Emissions (metric tons)[6]			
Alternative	Generator Scenario	# of UG Stations	Generators per UG Station	# of Generators	M&T Daily Use per Generator (hours/day)	Annual M&T Usage (hour/year)[2]	Total Annual Tesing Hours (hours/year)	HP[3]	Load Factor[4]	ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Alternative 4 & 5	Underground Stations-SEE NOTE	4	1	-	1	50	-	2,346	0.73	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Alternative 4 & 5	MSF	n/a	n/a	1	1	50	50	2,346	0.73	0.10	0.43	0.25	0.00	-	0.01	0.01	-	0.01	0.01	44.67	0.00	0.00	44.82
										0.10	0.43	0.25	0.00	-	0.01	0.01	-	0.01	0.01	44.67	0.00	0.00	44.82

Notes:

M&T = Maintenance and Testing

1. MSF would require an emergency generator.
2. SCAQMD 2021, Rule 1470. Generators shall not operate more than 50 hours per year for maintenance and testing.
3. HP obtained from spec sheet for Generac Diesel Generator-SD1500 (1875 kVA)
4. Load factor is based on CalEEMod default value for emergency generators.
5. Emission factors are based on CalEEMod default values for emergency generators.
6. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. CO_2 = 1; CH_4 = 25; N_2O = 298
7. Based on designs for Emergency and Uninterruptible Power Supply, backup power for alignment components would be supplied by a battery system and would not require diesel generators.

LADWP Forecasted CO_2e Intensity Factor Calculation for 2045

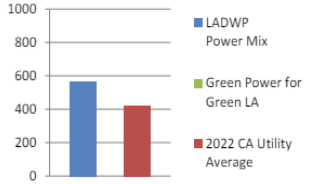
LADWP GHG Intensity Factors

2022 CO_2e Intensity Factor (lb/MWh)[1]
567

	2022 to 2045				
Resource Type	**2022 CO_2e Intensity Factor (lb/MWh)**	**2022 Power Mix**	**2045 Power Mix**	**% Change**	**2045 CO_2e Intensity Factor (lb/MWh)**
Renewables	0.0	35.6%	90%	153%	0.0
Non-Renewables	567.0	64.4%	10%	-84%	88.0
Totals	**567.0**	**100%**	**100%**	**N/A**	**88.0**

2022 POWER CONTENT LABEL
LADWP
https://www.ladwp.com/powercontent

Greenhouse Gas Emissions Intensity (lbs CO_2e/MWh)			Energy Resources	LADWP Power Mix	Green Power for Green LA	2022 CA Power Mix
LADWP Power Mix	Green Power for Green LA	2022 CA Utility Average	**Eligible Renewable**[1]	**35.6%**	**100.0%**	**35.8%**
567	0	422	Biomass & Biowaste	0.1%	0.0%	2.1%
			Geothermal	7.5%	0.0%	4.7%
			Eligible Hydroelectric	0.6%	0.0%	1.1%
			Solar	14.1%	100.0%	17.0%
			Wind	13.3%	0.0%	10.8%
			Coal	**12.6%**	**0.0%**	**2.1%**
			Large Hydroelectric	**4.0%**	**0.0%**	**9.2%**
			Natural Gas	**34.5%**	**0.0%**	**36.4%**
			Nuclear	**13.3%**	**0.0%**	**9.2%**
			Other	**0.0%**	**0.0%**	**0.1%**
			Unspecified Power[2]	**0.0%**	**0.0%**	**7.1%**
			TOTAL	**100.0%**	**100.0%**	**100.0%**
			Percentage of Retail Sales Covered by Retired Unbundled RECs[3]**:**	**3%**	**0%**	



[1]The eligible renewable percentage above does not reflect RPS compliance, which is determined using a different methodology.
[2]Unspecified power is electricity that has been purchased through open market transactions and is not traceable to a specific generation source.
[3]Renewable energy credits (RECs) are tracking instruments issued for renewable generation. Unbundled renewable energy credits (RECs) represent renewable generation that was not delivered to serve retail sales. Unbundled RECs are not reflected in the power mix or GHG emissions intensities above.
The unbundled RECs retired in association with LADWP's 2022 electricity portfolios were sourced from eligible renewable energy generators such as biomass, biowaste, geothermal, eligible hydroelectric, solar, and wind energy resources.

For specific information about this electricity portfolio, contact:	**Los Angeles Department of Water and Power 1-800-DIAL-DWP**
For general information about the Power Content Label, visit:	https://www.energy.ca.gov/programs-and-topics/programs/power-source-disclosure-program

Notes:

1. LADWP, 2022. Power Content Label
2. SB100 would require renewable energy and zero-carbon resources to supply 100 percent of electric retail sales to end-use customers by 2045. Los Angeles Department of Water and Power (LADWP) Strategic Long-Term Resource Plan (SLTRP) was developed to meet this requirement and even exceed this requirement by meeting the 100% renewables goal by 2035. To be conservative, it was assumed that LADWP's power mix would be compliant with SB100's standard schedule of 2045 due to uncertainty in assumptions made to meet the 2035 date. SB100 allows for the use of renewable energy credits which are a market-based mechanism to help meet renewable energy targets. This allows natural gas generation to help meet the 100% target if offset by the purchase of RECs. Therefore, it was assumed that natural gas could provide up to 10% of electricity generation in 2045, thus the CO_2e Intensity Factor accounts for some electricity generated from natural gas.

Appendix A-6.1: Alternative 6 Unmitigated Construction Emissions

Sepulveda Transit Corridor Project - ALTERNATIVE 6
Maximum Regional (Offsite + Onsite) Daily Emissions

						Max Day Date									
						5/1/2035	5/1/2035	4/2/2029	4/1/2030	4/1/2030	4/1/2030	4/1/2030	4/1/2030	4/1/2030	4/1/2030
						Daily Emissions (lb/day)									
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Hours per Workday**	**ROG**	**NO_X**	**CO**	**SO_X**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**
Segment 1-Westside-Ground Improvements	5/1/2031	8/31/2031	6	105	20	0.536	3.645	13.951	0.023	0.375	0.134	0.509	0.071	0.126	0.197
Segment 1-Westside-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	0.889	6.715	37.532	0.072	1.201	0.141	1.342	0.275	0.139	0.414
Segment 1-Westside-Tunnel Boring/Tunneling	9/1/2031	10/31/2032	6	366	20	0.997	18.933	29.830	0.176	9.685	0.317	10.002	1.836	0.306	2.143
Segment 1-Westside-TBM Retrieval/Tunnel Prep	11/1/2032	4/30/2033	6	156	20	0.672	5.499	25.830	0.051	0.770	0.103	0.873	0.171	0.102	0.272
Segment 1-Westside-Annular Grouting	9/1/2031	10/31/2032	6	366	20	0.584	4.918	14.599	0.037	1.382	0.151	1.533	0.256	0.142	0.398
Segment 1-Westside-Invert Construction	4/1/2034	7/31/2034	6	104	20	0.526	4.611	4.623	0.031	2.316	0.127	2.443	0.464	0.118	0.581
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	1.376	11.327	22.656	0.039	0.845	0.214	1.058	0.184	0.199	0.382
Segment 1-Westside-Rail and Plinth	8/1/2034	1/31/2035	6	158	20	0.281	1.984	2.633	0.013	1.066	0.059	1.125	0.222	0.054	0.277
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	**1.336**	**21.138**	32.963	0.060	0.848	0.196	1.044	0.185	0.183	0.368
Segment 2-Mountain-Ground Improvements	5/1/2031	8/31/2031	6	105	20	0.675	3.686	16.097	0.028	0.973	0.136	1.109	0.228	0.128	0.355
Segment 2-Mountain-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	0.889	6.715	37.532	0.072	1.201	0.141	1.342	0.275	0.139	0.414
Segment 2-Mountain-Tunnel Boring/Tunneling	9/1/2031	1/31/2034	6	758	20	0.959	17.180	29.387	0.162	8.840	0.292	9.132	1.684	0.282	1.966
Segment 2-Mountain-TBM Retrieval/Tunnel Prep	2/1/2034	7/31/2034	6	155	20	0.653	5.470	25.656	0.051	0.770	0.101	0.871	0.171	0.100	0.270
Segment 2-Mountain-Annular Grouting	9/1/2031	1/31/2034	6	758	20	0.582	4.814	14.576	0.036	1.307	0.150	1.457	0.243	0.141	0.384
Segment 2-Mountain-Invert Construction	5/1/2035	2/28/2037	6	575	20	**0.521**	**4.576**	4.524	0.031	2.317	0.126	2.443	0.464	0.117	0.581
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	**1.357**	**11.264**	22.564	0.039	0.845	0.204	1.048	0.184	0.189	0.373
Segment 2-Mountain-Rail and Plinth	4/1/2036	3/31/2037	6	313	20	0.273	1.860	2.484	0.012	0.992	0.057	1.048	0.209	0.053	0.262
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	1.324	21.106	32.892	0.059	0.848	0.191	1.038	0.185	0.178	0.363
Segment 3-Valley-Ground Improvements	5/1/2031	8/31/2031	6	105	20	0.536	3.645	13.951	0.023	0.375	0.134	0.509	0.071	0.126	0.197
Segment 3-Valley-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	0.889	6.715	37.532	0.072	1.201	0.141	1.342	0.275	0.139	0.414
Segment 3-Valley-Tunnel Boring/Tunneling	9/1/2031	8/31/2032	6	314	20	1.185	22.024	40.144	0.204	11.229	0.373	11.602	2.074	0.361	2.435
Segment 3-Valley-TBM Retrieval/Tunnel Prep	9/1/2032	2/28/2033	6	155	20	0.672	5.499	25.830	0.051	0.770	0.103	0.873	0.171	0.102	0.272
Segment 3-Valley-Annular Grouting	9/1/2031	8/31/2032	6	314	20	0.584	4.918	14.599	0.037	1.382	0.151	1.533	0.256	0.142	0.398
Segment 3-Valley-Invert Construction	4/1/2034	5/31/2035	6	365	20	**0.526**	**4.611**	4.623	0.031	2.316	0.127	2.443	0.464	0.118	0.581
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	1.401	11.385	22.760	0.039	0.845	0.227	1.071	0.184	0.210	0.394
Segment 3-Valley-Rail and Plinth	8/1/2034	9/30/2035	6	365	20	**0.277**	**1.786**	2.585	0.011	0.917	0.056	0.973	0.196	0.052	0.248
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	**1.336**	**21.138**	32.963	0.060	0.848	0.196	1.044	0.185	0.183	0.368
Mid Mountain Shaft-Site Preparation/Demolition	11/1/2031	12/31/2031	6	52	10	0.266	1.890	7.329	0.019	1.008	0.037	1.045	0.220	0.035	0.256
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	1.074	23.106	30.564	0.193	10.701	0.397	11.098	1.923	0.381	2.304
Mid Mountain Shaft-Drainage/Utilities	11/1/2031	12/31/2031	6	52	10	0.355	4.417	3.597	0.022	1.238	0.098	1.336	0.234	0.091	0.325
Mid Mountain Shaft-Shaft Drilling	1/1/2032	12/31/2032	6	314	10	0.292	1.441	12.121	0.025	1.194	0.040	1.234	0.222	0.040	0.262
Mid Mountain Shaft-Shaft Lining	1/1/2032	12/31/2032	6	314	10	0.123	0.731	1.863	0.011	0.938	0.011	0.949	0.209	0.010	0.219
Mid Mountain Shaft-Cavern and Adit	1/1/2033	12/31/2033	6	313	10	0.432	3.517	4.846	0.014	1.196	0.078	1.274	0.222	0.072	0.295
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	1.783	11.642	**35.312**	0.064	1.686	0.311	1.997	0.397	0.291	0.688
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	0.849	8.399	**20.409**	0.033	1.319	0.121	1.440	0.254	0.114	0.368
Van Nuys Metrolink Station-Grading	4/1/2029	6/30/2029	6	78	10	0.294	2.376	**7.964**	0.013	0.642	0.056	0.698	0.096	0.052	0.148
Van Nuys Metrolink Station-Drainage	4/1/2029	7/31/2029	6	104	10	0.764	5.056	**8.433**	0.024	1.706	0.138	1.844	0.379	0.127	0.506
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	1.206	9.519	31.416	0.078	2.903	0.237	3.140	0.589	0.225	0.814
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	1.355	23.389	33.775	**0.163**	**7.843**	**0.393**	**8.236**	**1.442**	**0.375**	**1.817**
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	**1.869**	**13.972**	32.458	0.078	2.800	0.278	3.079	0.616	0.261	0.877
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	1.382	5.784	21.650	0.037	0.848	0.113	0.960	0.185	0.108	0.293
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	**0.643**	**6.761**	10.847	0.024	0.922	0.078	1.000	0.198	0.072	0.270
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	1.783	11.642	**35.312**	0.064	1.686	0.311	1.997	0.397	0.291	0.688
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	0.849	8.399	**20.409**	0.033	1.313	0.121	1.434	0.253	0.114	0.367
Metro G Line Station-Grading	4/1/2029	6/30/2029	6	78	10	0.294	2.376	**7.964**	0.013	0.642	0.056	0.698	0.096	0.052	0.148
Metro G Line Station-Drainage	4/1/2029	7/31/2029	6	104	10	0.764	5.056	**8.433**	0.024	1.706	0.138	1.844	0.379	0.127	0.506
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	1.208	9.627	31.440	0.079	2.978	0.239	3.216	0.602	0.226	0.829
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	1.437	27.257	34.741	**0.193**	**9.708**	**0.449**	**10.157**	**1.778**	**0.428**	**2.205**
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	**1.877**	**14.174**	32.506	0.080	2.950	0.281	3.231	0.642	0.264	0.906
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	1.023	5.784	21.650	0.037	0.848	0.113	0.960	0.185	0.108	0.293
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	**0.643**	**6.761**	10.847	0.024	0.922	0.078	1.000	0.198	0.072	0.270
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	1.783	11.642	**35.312**	0.064	1.686	0.311	1.997	0.397	0.291	0.688
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	0.849	8.399	**20.409**	0.033	1.199	0.121	1.320	0.236	0.114	0.350
Ventura Blvd Station-Grading	4/1/2029	7/31/2029	6	104	10	0.294	2.376	**7.964**	0.013	0.642	0.056	0.698	0.096	0.052	0.148
Ventura Blvd Station-Drainage	4/1/2029	6/30/2030	6	390	10	0.764	5.056	**8.433**	**0.024**	**1.706**	**0.138**	**1.844**	**0.379**	**0.127**	**0.506**
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	1.165	9.742	31.217	0.080	3.127	0.232	3.359	0.629	0.220	0.849
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	1.315	23.184	33.626	0.162	7.848	0.380	8.228	1.444	0.362	1.806
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	**1.873**	**13.972**	32.458	0.078	2.800	0.278	3.079	0.616	0.261	0.877
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	1.141	5.784	21.650	0.037	0.848	0.113	0.960	0.185	0.108	0.293
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	**0.643**	**6.761**	10.847	0.024	0.922	0.078	1.000	0.198	0.072	0.270

Sepulveda Transit Corridor Project - ALTERNATIVE 6
Maximum Regional (Offsite + Onsite) Daily Emissions

						Max Day Date									
						5/1/2035	5/1/2035	4/2/2029	4/1/2030	4/1/2030	4/1/2030	4/1/2030	4/1/2030	4/1/2030	4/1/2030
						Daily Emissions (lb/day)									
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Hours per Workday**	**ROG**	**NO_X**	**CO**	**SO_X**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	1.783	11.642	**35.312**	**0.064**	**1.686**	**0.311**	**1.997**	**0.397**	**0.291**	**0.688**
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	0.849	8.399	**20.409**	**0.033**	**0.860**	**0.121**	**0.981**	**0.184**	**0.114**	**0.298**
UCLA Station-Grading	4/1/2029	6/30/2029	6	78	10	0.294	2.376	**7.964**	0.013	0.642	0.056	0.698	0.096	0.052	0.148
UCLA Station-Drainage	4/1/2029	12/31/2029	6	235	10	0.764	5.056	**8.433**	0.024	1.706	0.138	1.844	0.379	0.127	0.506
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	1.232	10.925	31.728	0.092	3.872	0.255	4.127	0.759	0.242	1.001
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	1.392	25.162	34.218	**0.177**	**8.698**	**0.419**	**9.117**	**1.596**	**0.399**	**1.995**
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	**1.843**	**13.892**	32.204	0.078	2.801	0.271	3.072	0.616	0.255	0.871
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	0.801	5.784	21.650	0.037	0.848	0.113	0.960	0.185	0.108	0.293
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	0.637	6.736	10.783	0.024	0.922	0.075	0.998	0.198	0.070	0.268
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	1.783	11.642	**35.312**	0.064	1.686	0.311	1.997	0.397	0.291	0.688
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demo	4/1/2029	6/30/2029	6	78	10	0.849	8.399	**20.409**	0.033	1.146	0.121	1.267	0.228	0.114	0.342
Wilshire Blvd (Metro D Line) Station-Grading	4/1/2029	6/30/2029	6	78	10	0.294	2.376	**7.964**	0.013	0.642	0.056	0.698	0.096	0.052	0.148
Wilshire Blvd (Metro D Line) Station-Drainage	4/1/2029	3/31/2030	6	312	10	0.764	5.056	**8.433**	0.024	1.706	0.138	1.844	0.379	0.127	0.506
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	1.206	9.519	31.416	**0.078**	**2.903**	**0.237**	**3.140**	**0.589**	**0.225**	**0.814**
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	1.233	17.586	32.325	**0.119**	**5.045**	**0.310**	**5.355**	**0.939**	**0.295**	**1.235**
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	**1.869**	**13.771**	32.410	0.076	2.651	0.276	2.927	0.590	0.259	0.848
Wilshire Blvd (Metro D Line) Station-Final Roadway Constru	2/1/2036	5/31/2036	6	104	10	0.720	5.784	21.650	0.037	0.848	0.113	0.960	0.185	0.108	0.293
Wilshire Blvd (Metro D Line) Station-Station Finishes and Te	3/1/2035	2/29/2036	6	314	10	**0.643**	**6.761**	10.847	0.024	0.922	0.078	1.000	0.198	0.072	0.270
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	1.783	11.642	**35.312**	0.064	1.686	0.311	1.997	0.397	0.291	0.688
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	0.849	8.399	**20.409**	0.033	14.729	0.121	14.850	2.284	0.114	2.398
Santa Monica Blvd Station-Grading	4/1/2029	6/30/2029	6	78	10	0.294	2.376	**7.964**	0.013	0.642	0.056	0.698	0.096	0.052	0.148
Santa Monica Blvd Station-Drainage	4/1/2029	7/31/2029	6	104	10	0.764	5.056	**8.433**	0.024	1.706	0.138	1.844	0.379	0.127	0.506
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	1.216	10.060	31.536	0.083	3.276	0.244	3.520	0.655	0.232	0.886
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	1.399	25.484	34.298	**0.180**	**8.853**	**0.423**	**9.277**	**1.624**	**0.404**	**2.027**
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	**1.873**	**13.972**	32.458	0.078	2.800	0.278	3.079	0.616	0.261	0.877
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	0.927	5.784	21.650	0.037	0.848	0.113	0.960	0.185	0.108	0.293
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	**0.643**	**6.761**	10.847	0.024	0.922	0.078	1.000	0.198	0.072	0.270
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	1.783	11.642	**35.312**	0.064	1.686	0.311	1.997	0.397	0.291	0.688
Metro E Line (Expo)/Bundy Station-Site Preparation/Demoli	4/1/2029	6/30/2029	6	78	10	0.849	8.399	**20.409**	0.033	1.453	0.121	1.574	0.274	0.114	0.388
Metro E Line (Expo)/Bundy Station-Grading	4/1/2029	6/30/2029	6	78	10	0.294	2.376	**7.964**	0.013	0.642	0.056	0.698	0.096	0.052	0.148
Metro E Line (Expo)/Bundy Station-Drainage	4/1/2029	7/31/2029	6	104	10	0.764	5.056	**8.433**	0.024	1.706	0.138	1.844	0.379	0.127	0.506
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	1.202	9.303	31.368	**0.075**	**2.754**	**0.235**	**2.989**	**0.563**	**0.222**	**0.786**
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	1.549	32.577	36.070	**0.234**	**12.273**	**0.525**	**12.798**	**2.239**	**0.501**	**2.739**
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	**1.877**	**14.375**	32.554	0.082	3.099	0.284	3.383	0.668	0.266	0.935
Metro E Line (Expo)/Bundy Station-Final Roadway Construct	2/1/2036	5/31/2036	6	104	10	1.334	5.784	21.650	0.037	0.848	0.113	0.960	0.185	0.108	0.293
Metro E Line (Expo)/Bundy Station-Station Finishes and Test	2/1/2035	1/31/2036	6	313	10	**0.643**	**6.761**	10.847	0.024	0.922	0.078	1.000	0.198	0.072	0.270
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolitic	5/1/2031	6/30/2031	5	43	8	0.263	2.039	4.204	0.008	0.377	0.054	0.431	0.071	0.050	0.121
Vanowen St/Van Nuys Blvd TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	**0.133**	**1.753**	2.269	0.006	0.375	0.025	0.400	0.071	0.023	0.094
Vanowen St/Van Nuys Blvd TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	0.108	0.524	4.453	0.009	0.300	0.016	0.316	0.057	0.016	0.074
Magnolia TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	0.263	2.039	4.204	0.008	0.377	0.054	0.431	0.071	0.050	0.121
Magnolia TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	**0.133**	**1.753**	2.269	0.006	0.375	0.025	0.400	0.071	0.023	0.094
Magnolia TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	0.108	0.524	4.453	0.009	0.300	0.016	0.316	0.057	0.016	0.074
Mid Mountain Shaft TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	0.263	2.039	4.204	0.008	0.377	0.054	0.431	0.071	0.050	0.121
Mid Mountain Shaft TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	**0.133**	**1.753**	2.269	0.006	0.375	0.025	0.400	0.071	0.023	0.094
Mid Mountain Shaft TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	0.108	0.524	4.453	0.009	0.300	0.016	0.316	0.057	0.016	0.074
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	0.478	3.628	9.970	0.018	0.548	0.096	0.644	0.106	0.090	0.196
OMSF-Grading	2/1/2033	7/31/2033	5	129	8	0.289	2.333	6.571	0.010	0.412	0.046	0.458	0.086	0.043	0.129
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	**6.478**	**17.864**	34.756	0.061	0.693	0.264	0.957	0.157	0.247	0.404
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	1.968	3.557	7.821	0.013	0.412	0.104	0.517	0.086	0.097	0.183
OMSF-Drainage/Utilties	5/1/2033	10/31/2033	5	131	8	0.272	2.245	5.311	0.009	0.412	0.043	0.455	0.086	0.040	0.125
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	0.842	9.012	26.517	**0.078**	**9.208**	**0.169**	**9.377**	**1.558**	**0.163**	**1.721**
					Maximum Daily Emissions[1]	**29.17**	**226.33**	**504.82**	**1.42**	**71.54**	**3.73**	**75.27**	**13.29**	**3.54**	**16.83**
					SCAQMD Regional Significance Thresholds[2]	75	100	550	150	n/a	n/a	150	n/a	n/a	55
					Threshold Exceeded?	**No**	**Yes**	**No**	**No**	--	--	**No**	--	--	**No**

Notes:
1. Maximum daily emissions are based on the sum of daily emissions from individual phases whose schedules overlap.
2. SCAQMD, Air Quality Significance Thresholds, March 2023.
3. Highlighted cells indicate phases that contribute to maximum daily emissions.

Sepulveda Transit Corridor Project - ALTERNATIVE 6

Maximum Regional (Offsite + Onsite) Daily Emissions per Construction Year

	Maximum Daily Emissions (lb/day)									
Construction Year	ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total
2029	25.83	192.32	**504.82**	0.93	50.26	**4.38**	54.63	9.81	**4.09**	13.90
2030	15.01	204.39	358.88	**1.42**	**71.54**	3.73	**75.27**	**13.29**	3.54	**16.83**
2031	9.67	128.09	292.24	1.08	61.58	2.38	63.96	11.27	2.28	13.55
2032	6.45	83.97	183.64	0.76	45.16	1.65	46.82	8.34	1.59	9.93
2033	18.80	149.68	337.44	0.88	40.71	2.99	43.70	8.10	2.81	10.91
2034	22.62	141.95	319.27	0.76	29.35	2.77	32.01	6.13	2.60	8.63
2035	**29.17**	**226.33**	433.91	1.00	35.34	3.66	39.00	7.60	3.42	11.02
2036	21.49	196.81	385.14	0.88	30.29	3.14	33.43	6.57	2.93	9.50
2037	5.40	53.95	104.54	0.24	8.73	0.83	9.56	1.86	0.78	2.64
Maximum Daily Emissions	**29.17**	**226.33**	**504.82**	**1.42**	**71.54**	**4.38**	**75.27**	**13.29**	**4.09**	**16.83**
SCAQMD Regional Thresholds	75	100	550	150	n/a	n/a	150	n/a	n/a	55
Threshold Exceeded?	**No**	**Yes**	**No**	**No**	--	--	**No**	--	--	**No**

Notes:

1. Maximum daily emissions are based on the sum of daily emissions from individual phases whose schedules overlap.
2. SCAQMD, Air Quality Significance Thresholds, March 2023.
3. Highlighted cells indicate daily maximum emissions.

Sepulveda Transit Corridor Project - ALTERNATIVE 6

Total Regional (Offsite + Onsite) Emissions per Construction Phase

						Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Hours per Workday**	**ROG**	**NO_X**	**CO**	**SO_X**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**	**CO_2**	**CH_4**	**N_2O**	**CO_2e**
Segment 1-Westside-Ground Improvements	5/1/2031	8/31/2031	6	105	20	0.03	0.19	0.73	1.21E-03	0.020	0.007	0.027	0.004	0.007	0.010	109.38	0.0040	0.0021	110.10
Segment 1-Westside-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	0.05	0.35	1.97	3.76E-03	0.063	0.007	0.070	0.014	0.007	0.022	368.90	0.0131	0.0075	371.46
Segment 1-Westside-Tunnel Boring/Tunneling	9/1/2031	10/31/2032	6	366	20	0.18	3.46	5.46	3.21E-02	1.772	0.058	1.830	0.336	0.056	0.392	3099.42	0.0318	0.3669	3209.56
Segment 1-Westside-TBM Retrieval/Tunnel Prep	11/1/2032	4/30/2033	6	156	20	0.05	0.43	2.01	4.00E-03	0.060	0.008	0.068	0.013	0.008	0.021	393.45	0.0146	0.0055	395.46
Segment 1-Westside-Annular Grouting	9/1/2031	10/31/2032	6	366	20	0.11	0.90	2.67	6.72E-03	0.253	0.028	0.281	0.047	0.026	0.073	622.26	0.0144	0.0428	635.36
Segment 1-Westside-Invert Construction	4/1/2034	7/31/2034	6	104	20	0.03	0.24	0.24	1.62E-03	0.120	0.007	0.127	0.024	0.006	0.030	149.05	0.0014	0.0157	153.77
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	0.21	1.77	3.53	6.13E-03	0.132	0.033	0.165	0.029	0.031	0.060	533.07	0.0183	0.0111	536.85
Segment 1-Westside-Rail and Plinth	8/1/2034	1/31/2035	6	158	20	0.02	0.16	0.21	1.02E-03	0.084	0.005	0.089	0.018	0.004	0.022	93.40	0.0012	0.0075	95.65
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	0.21	3.31	5.16	9.32E-03	0.133	0.031	0.163	0.029	0.029	0.058	899.78	0.0330	0.0143	904.85
Segment 2-Mountain-Ground Improvements	5/1/2031	8/31/2031	6	105	20	0.04	0.19	0.85	1.47E-03	0.051	0.007	0.058	0.012	0.007	0.019	135.95	0.0046	0.0020	136.65
Segment 2-Mountain-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	0.05	0.35	1.97	3.76E-03	0.063	0.007	0.070	0.014	0.007	0.022	368.90	0.0131	0.0075	371.46
Segment 2-Mountain-Tunnel Boring/Tunneling	9/1/2031	1/31/2034	6	758	20	0.36	6.51	11.14	6.14E-02	3.350	0.111	3.461	0.638	0.107	0.745	5928.97	0.0652	0.6828	6134.06
Segment 2-Mountain-TBM Retrieval/Tunnel Prep	2/1/2034	7/31/2034	6	155	20	0.05	0.42	1.99	3.97E-03	0.060	0.008	0.068	0.013	0.008	0.021	390.12	0.0144	0.0054	392.08
Segment 2-Mountain-Annular Grouting	9/1/2031	1/31/2034	6	758	20	0.22	1.82	5.52	1.35E-02	0.495	0.057	0.552	0.092	0.053	0.145	1250.32	0.0299	0.0825	1275.66
Segment 2-Mountain-Invert Construction	5/1/2035	2/28/2037	6	575	20	0.15	1.32	1.30	8.91E-03	0.666	0.036	0.702	0.133	0.034	0.167	818.41	0.0074	0.0860	844.22
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	0.51	4.26	8.54	1.48E-02	0.320	0.077	0.397	0.070	0.072	0.141	1291.17	0.0441	0.0267	1300.24
Segment 2-Mountain-Rail and Plinth	4/1/2036	3/31/2037	6	313	20	0.04	0.29	0.39	1.84E-03	0.155	0.009	0.164	0.033	0.008	0.041	167.59	0.0022	0.0121	171.25
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	0.21	3.30	5.15	9.31E-03	0.133	0.030	0.162	0.029	0.028	0.057	898.95	0.0329	0.0141	903.99
Segment 3-Valley-Ground Improvements	5/1/2031	8/31/2031	6	105	20	0.03	0.19	0.73	1.21E-03	0.020	0.007	0.027	0.004	0.007	0.010	109.38	0.0040	0.0021	110.10
Segment 3-Valley-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	0.05	0.35	1.97	3.76E-03	0.063	0.007	0.070	0.014	0.007	0.022	368.90	0.0131	0.0075	371.46
Segment 3-Valley-Tunnel Boring/Tunneling	9/1/2031	8/31/2032	6	314	20	0.19	3.46	6.30	3.21E-02	1.763	0.059	1.822	0.326	0.057	0.382	3098.52	0.0355	0.3551	3205.23
Segment 3-Valley-TBM Retrieval/Tunnel Prep	9/1/2032	2/28/2033	6	155	20	0.05	0.43	2.00	3.98E-03	0.060	0.008	0.068	0.013	0.008	0.021	390.93	0.0145	0.0055	392.92
Segment 3-Valley-Annular Grouting	9/1/2031	8/31/2032	6	314	20	0.09	0.77	2.29	5.76E-03	0.217	0.024	0.241	0.040	0.022	0.063	533.85	0.0124	0.0367	545.09
Segment 3-Valley-Invert Construction	4/1/2034	5/31/2035	6	365	20	0.10	0.84	0.84	5.70E-03	0.423	0.023	0.446	0.085	0.021	0.106	523.12	0.0048	0.0551	539.66
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	0.35	2.82	5.63	9.75E-03	0.209	0.056	0.265	0.045	0.052	0.098	847.31	0.0292	0.0179	853.37
Segment 3-Valley-Rail and Plinth	8/1/2034	9/30/2035	6	365	20	0.05	0.33	0.47	1.99E-03	0.167	0.010	0.178	0.036	0.009	0.045	179.84	0.0027	0.0116	183.36
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	0.21	3.31	5.16	9.32E-03	0.133	0.031	0.163	0.029	0.029	0.058	899.78	0.0330	0.0143	904.85
Mid Mountain Shaft-Site Preparation/Demolition	11/1/2031	12/31/2031	6	52	10	0.01	0.05	0.19	4.82E-04	0.026	0.001	0.027	0.006	0.001	0.007	47.07	0.0010	0.0029	47.96
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	0.08	1.83	2.41	1.52E-02	0.845	0.031	0.877	0.152	0.030	0.182	1465.42	0.0138	0.1826	1520.17
Mid Mountain Shaft-Drainage/Utilities	11/1/2031	12/31/2031	6	52	10	0.01	0.11	0.09	5.73E-04	0.032	0.003	0.035	0.006	0.002	0.008	54.20	0.0005	0.0066	56.19
Mid Mountain Shaft-Shaft Drilling	1/1/2032	12/31/2032	6	314	10	0.05	0.23	1.90	3.88E-03	0.187	0.006	0.194	0.035	0.006	0.041	380.77	0.0118	0.0116	384.53
Mid Mountain Shaft-Shaft Lining	1/1/2032	12/31/2032	6	314	10	0.02	0.11	0.29	1.66E-03	0.147	0.002	0.149	0.033	0.002	0.034	162.35	0.0015	0.0148	166.80
Mid Mountain Shaft-Cavern and Adit	1/1/2033	12/31/2033	6	313	10	0.07	0.55	0.76	2.12E-03	0.187	0.012	0.199	0.035	0.011	0.046	194.98	0.0042	0.0099	198.05
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	0.14	0.91	2.75	4.96E-03	0.131	0.024	0.156	0.031	0.023	0.054	468.86	0.0164	0.0085	471.80
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	0.03	0.33	0.80	1.27E-03	0.051	0.005	0.056	0.010	0.004	0.014	117.43	0.0042	0.0022	118.19
Van Nuys Metrolink Station-Grading	4/1/2029	6/30/2029	6	78	10	0.01	0.09	0.31	4.92E-04	0.025	0.002	0.027	0.004	0.002	0.006	48.19	0.0016	0.0014	48.65
Van Nuys Metrolink Station-Drainage	4/1/2029	7/31/2029	6	104	10	0.04	0.26	0.44	1.27E-03	0.089	0.007	0.096	0.020	0.007	0.026	119.26	0.0025	0.0072	121.48
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	0.09	0.74	2.45	6.05E-03	0.226	0.019	0.245	0.046	0.018	0.064	581.82	0.0148	0.0338	592.26
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	0.16	2.76	3.99	1.93E-02	0.925	0.046	0.972	0.170	0.044	0.214	1862.11	0.0233	0.2101	1925.30
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	0.90	6.74	15.66	3.76E-02	1.351	0.134	1.486	0.297	0.126	0.423	3436.53	0.0956	0.1391	3480.38
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	0.07	0.30	1.13	1.94E-03	0.044	0.006	0.050	0.010	0.006	0.015	190.51	0.0065	0.0038	191.81
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	0.10	1.06	1.70	3.73E-03	0.144	0.012	0.156	0.031	0.011	0.042	337.70	0.0096	0.0120	341.51
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	0.14	0.91	2.75	4.96E-03	0.131	0.024	0.156	0.031	0.023	0.054	468.86	0.0164	0.0085	471.80
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	0.03	0.33	0.80	1.27E-03	0.051	0.005	0.056	0.010	0.004	0.014	117.43	0.0042	0.0022	118.19
Metro G Line Station-Grading	4/1/2029	6/30/2029	6	78	10	0.01	0.09	0.31	4.92E-04	0.025	0.002	0.027	0.004	0.002	0.006	48.19	0.0016	0.0014	48.65
Metro G Line Station-Drainage	4/1/2029	7/31/2029	6	104	10	0.04	0.26	0.44	1.27E-03	0.089	0.007	0.096	0.020	0.007	0.026	119.26	0.0025	0.0072	121.48
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	0.09	0.75	2.45	6.13E-03	0.232	0.019	0.251	0.047	0.018	0.065	589.89	0.0148	0.0351	600.72
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	0.17	3.22	4.10	2.28E-02	1.146	0.053	1.199	0.210	0.050	0.260	2199.70	0.0237	0.2633	2278.75
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	0.88	6.66	15.28	3.76E-02	1.386	0.132	1.518	0.302	0.124	0.426	3440.85	0.0932	0.1502	3487.95
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	0.05	0.30	1.13	1.94E-03	0.044	0.006	0.050	0.010	0.006	0.015	190.51	0.0065	0.0038	191.81
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	0.10	1.06	1.70	3.74E-03	0.145	0.012	0.157	0.031	0.011	0.042	338.78	0.0096	0.0120	342.60
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	0.14	0.91	2.75	4.96E-03	0.131	0.024	0.156	0.031	0.023	0.054	468.86	0.0164	0.0085	471.80
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	0.04	0.44	1.06	1.70E-03	0.062	0.006	0.069	0.012	0.006	0.018	156.57	0.0055	0.0029	157.59
Ventura Blvd Station-Grading	4/1/2029	7/31/2029	6	104	10	0.02	0.12	0.41	6.57E-04	0.033	0.003	0.036	0.005	0.003	0.008	64.26	0.0022	0.0019	64.87
Ventura Blvd Station-Drainage	4/1/2029	6/30/2030	6	390	10	0.15	0.99	1.64	4.77E-03	0.333	0.027	0.359	0.074	0.025	0.099	447.22	0.0092	0.0271	455.53
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	0.09	0.77	2.47	6.34E-03	0.247	0.018	0.265	0.050	0.017	0.067	610.66	0.0149	0.0376	622.24
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	0.15	2.71	3.93	1.89E-02	0.918	0.044	0.963	0.169	0.042	0.211	1827.92	0.0230	0.2054	1889.71
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	0.88	6.57	15.26	3.67E-02	1.316	0.131	1.447	0.289	0.123	0.412	3347.51	0.0932	0.1355	3390.21
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	0.06	0.30	1.13	1.94E-03	0.044	0.006	0.050	0.010	0.006	0.015	190.51	0.0065	0.0038	191.81
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	0.10	1.06	1.70	3.74E-03	0.145	0.012	0.157	0.031	0.011	0.042	338.78	0.0096	0.0120	342.60

Sepulveda Transit Corridor Project - ALTERNATIVE 6

Total Regional (Offsite + Onsite) Emissions per Construction Phase

						Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Hours per Workday**	**ROG**	**NO_X**	**CO**	**SO_X**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**	**CO_2**	**CH_4**	**N_2O**	**CO_2e**
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	0.42	2.73	8.28	1.49E-02	0.395	0.073	0.468	0.093	0.068	0.161	1409.58	0.0493	0.0255	1418.42
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	0.20	1.97	4.79	7.66E-03	0.202	0.028	0.230	0.043	0.027	0.070	706.08	0.0250	0.0133	710.66
UCLA Station-Grading	4/1/2029	6/30/2029	6	78	10	0.01	0.09	0.31	4.92E-04	0.025	0.002	0.027	0.004	0.002	0.006	48.19	0.0016	0.0014	48.65
UCLA Station-Drainage	4/1/2029	12/31/2029	6	235	10	0.09	0.59	0.99	2.88E-03	0.200	0.016	0.217	0.044	0.015	0.059	269.48	0.0055	0.0163	274.49
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	0.10	0.85	2.47	7.14E-03	0.302	0.020	0.322	0.059	0.019	0.078	686.76	0.0149	0.0504	702.14
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	0.22	3.94	5.36	2.77E-02	1.361	0.066	1.427	0.250	0.062	0.312	2674.88	0.0311	0.3110	2768.32
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	0.87	6.52	15.12	3.65E-02	1.315	0.127	1.442	0.289	0.120	0.409	3332.43	0.0922	0.1337	3374.57
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	0.06	0.45	1.69	2.90E-03	0.066	0.009	0.075	0.014	0.008	0.023	285.77	0.0098	0.0057	287.72
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	0.10	1.05	1.69	3.72E-03	0.144	0.012	0.156	0.031	0.011	0.042	336.74	0.0095	0.0118	340.50
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	0.14	0.91	2.75	4.96E-03	0.131	0.024	0.156	0.031	0.023	0.054	468.86	0.0164	0.0085	471.80
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	0.03	0.33	0.80	1.27E-03	0.045	0.005	0.049	0.009	0.004	0.013	117.43	0.0042	0.0022	118.19
Wilshire Blvd (Metro D Line) Station-Grading	4/1/2029	6/30/2029	6	78	10	0.01	0.09	0.31	4.92E-04	0.025	0.002	0.027	0.004	0.002	0.006	48.19	0.0016	0.0014	48.65
Wilshire Blvd (Metro D Line) Station-Drainage	4/1/2029	3/31/2030	6	312	10	0.12	0.79	1.32	3.82E-03	0.266	0.021	0.288	0.059	0.020	0.079	357.78	0.0074	0.0217	364.43
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	0.13	0.99	3.28	8.10E-03	0.303	0.025	0.328	0.062	0.024	0.085	779.48	0.0198	0.0453	793.48
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	0.24	3.44	6.32	2.32E-02	0.986	0.061	1.047	0.184	0.058	0.241	2246.15	0.0375	0.2159	2311.42
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	0.88	6.47	15.23	3.57E-02	1.246	0.130	1.376	0.277	0.122	0.399	3254.16	0.0931	0.1208	3292.48
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	0.04	0.30	1.13	1.94E-03	0.044	0.006	0.050	0.010	0.006	0.015	190.51	0.0065	0.0038	191.81
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	0.10	1.06	1.70	3.74E-03	0.145	0.012	0.157	0.031	0.011	0.042	338.78	0.0096	0.0120	342.60
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	0.14	0.91	2.75	4.96E-03	0.131	0.024	0.156	0.031	0.023	0.054	468.86	0.0164	0.0085	471.80
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	0.07	0.66	1.59	2.55E-03	1.149	0.009	1.158	0.178	0.009	0.187	234.86	0.0083	0.0044	236.38
Santa Monica Blvd Station-Grading	4/1/2029	6/30/2029	6	78	10	0.01	0.09	0.31	4.92E-04	0.025	0.002	0.027	0.004	0.002	0.006	48.19	0.0016	0.0014	48.65
Santa Monica Blvd Station-Drainage	4/1/2029	7/31/2029	6	104	10	0.04	0.26	0.44	1.27E-03	0.089	0.007	0.096	0.020	0.007	0.026	119.26	0.0025	0.0072	121.48
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	0.09	0.78	2.46	6.47E-03	0.256	0.019	0.275	0.051	0.018	0.069	622.18	0.0148	0.0402	634.52
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	0.17	3.01	4.05	2.12E-02	1.045	0.050	1.095	0.192	0.048	0.239	2044.97	0.0235	0.2389	2116.75
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	0.88	6.57	15.26	3.67E-02	1.316	0.131	1.447	0.289	0.123	0.412	3347.51	0.0932	0.1355	3390.21
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	0.05	0.30	1.13	1.94E-03	0.044	0.006	0.050	0.010	0.006	0.015	190.51	0.0065	0.0038	191.81
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	0.10	1.06	1.70	3.74E-03	0.145	0.012	0.157	0.031	0.011	0.042	338.78	0.0096	0.0120	342.60
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	0.14	0.91	2.75	4.96E-03	0.131	0.024	0.156	0.031	0.023	0.054	468.86	0.0164	0.0085	471.80
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	0.03	0.33	0.80	1.27E-03	0.057	0.005	0.061	0.011	0.004	0.015	117.43	0.0042	0.0022	118.19
Metro E Line (Expo)/Bundy Station-Grading	4/1/2029	6/30/2029	6	78	10	0.01	0.09	0.31	4.92E-04	0.025	0.002	0.027	0.004	0.002	0.006	48.19	0.0016	0.0014	48.65
Metro E Line (Expo)/Bundy Station-Drainage	4/1/2029	7/31/2029	6	104	10	0.04	0.26	0.44	1.27E-03	0.089	0.007	0.096	0.020	0.007	0.026	119.26	0.0025	0.0072	121.48
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	0.19	1.46	4.91	1.18E-02	0.431	0.037	0.468	0.088	0.035	0.123	1134.97	0.0296	0.0628	1154.41
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	0.18	3.84	4.26	2.77E-02	1.448	0.062	1.510	0.264	0.059	0.323	2663.89	0.0242	0.3364	2764.74
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	0.91	6.94	15.71	3.96E-02	1.495	0.137	1.632	0.322	0.129	0.451	3628.20	0.0958	0.1693	3681.04
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	0.07	0.30	1.13	1.94E-03	0.044	0.006	0.050	0.010	0.006	0.015	190.51	0.0065	0.0038	191.81
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	0.10	1.06	1.70	3.73E-03	0.144	0.012	0.156	0.031	0.011	0.042	337.70	0.0096	0.0120	341.51
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	0.01	0.04	0.09	1.71E-04	0.008	0.001	0.009	0.002	0.001	0.003	16.76	0.0005	0.0007	16.97
Vanowen St/Van Nuys Blvd TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	0.00	0.04	0.05	1.25E-04	0.008	0.001	0.009	0.002	0.001	0.002	11.52	0.0003	0.0006	11.69
Vanowen St/Van Nuys Blvd TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	0.00	0.01	0.05	9.73E-05	0.003	0.000	0.003	0.001	0.000	0.001	9.60	0.0003	0.0002	9.65
Magnolia TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	0.01	0.04	0.09	1.71E-04	0.008	0.001	0.009	0.002	0.001	0.003	16.76	0.0005	0.0007	16.97
Magnolia TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	0.00	0.04	0.05	1.25E-04	0.008	0.001	0.009	0.002	0.001	0.002	11.52	0.0003	0.0006	11.69
Magnolia TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	0.00	0.01	0.05	9.73E-05	0.003	0.000	0.003	0.001	0.000	0.001	9.60	0.0003	0.0002	9.65
Mid Mountain Shaft TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	0.01	0.04	0.09	1.71E-04	0.008	0.001	0.009	0.002	0.001	0.003	16.76	0.0005	0.0007	16.97
Mid Mountain Shaft TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	0.00	0.04	0.05	1.25E-04	0.008	0.001	0.009	0.002	0.001	0.002	11.52	0.0003	0.0006	11.69
Mid Mountain Shaft TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	0.00	0.01	0.05	9.73E-05	0.003	0.000	0.003	0.001	0.000	0.001	9.60	0.0003	0.0002	9.65
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	0.03	0.23	0.64	1.17E-03	0.035	0.006	0.042	0.007	0.006	0.013	110.62	0.0040	0.0015	111.16
OMSF-Grading	2/1/2033	7/31/2033	5	129	8	0.02	0.15	0.42	6.73E-04	0.027	0.003	0.030	0.006	0.003	0.008	66.34	0.0022	0.0011	66.73
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	1.13	3.13	6.08	1.08E-02	0.121	0.046	0.167	0.027	0.043	0.071	942.14	0.0359	0.0096	945.91
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	0.13	0.23	0.50	8.34E-04	0.027	0.007	0.033	0.006	0.006	0.012	77.91	0.0027	0.0012	78.33
OMSF-Drainage/Utilties	5/1/2033	10/31/2033	5	131	8	0.02	0.15	0.35	5.74E-04	0.027	0.003	0.030	0.006	0.003	0.008	56.65	0.0018	0.0010	57.00
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	0.53	5.65	16.61	4.91E-02	5.769	0.106	5.875	0.976	0.102	1.078	4665.14	0.0998	0.3588	4774.55
					Total	**17.42**	**156.52**	**338.82**	**0.94**	**43.21**	**2.96**	**46.17**	**8.48**	**2.79**	**11.27**	**88611.42**	**2.01**	**5.90**	**90418.85**

Notes:

1. Global warming potentials based on IPCC AR4, consistent with CARB emission inventory methods.
2. Alternative 1 would not include tunneling, therefore a tunnel boring machine was not required.

TBM Electricity Consumption	121166
Portable Office Electricity Consumpt	70.7
Alternative Total	**211,655.6**
30 - Year Amortization	**7,055.2**

Sepulveda Transit Corridor Project - ALTERNATIVE 6

Regional (Offsite + Onsite) Emissions by Construction Year

		Annual Emissions (tons per year)										Annual Emissions (metric tons)			
Year	Construction Year	ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
2029	Year 1	2.186	16.048	43.376	0.087	4.381	0.381	4.762	0.872	0.357	1.229	8210.59	0.25	0.29	8302.82
2030	Year 2	2.014	26.235	48.922	0.185	9.382	0.489	9.871	1.745	0.465	2.210	17798.64	0.29	1.73	18321.35
2031	Year 3	1.041	14.031	30.612	0.113	6.069	0.268	6.337	1.111	0.257	1.368	10896.93	0.18	1.03	11209.72
2032	Year 4	0.957	12.169	28.015	0.108	6.241	0.240	6.481	1.154	0.230	1.384	10336.13	0.16	1.00	10636.93
2033	Year 5	2.538	21.190	48.539	0.128	5.990	0.422	6.413	1.186	0.398	1.584	11903.33	0.29	0.70	12117.79
2034	Year 6	3.047	20.126	45.041	0.109	3.931	0.399	4.330	0.849	0.374	1.224	9922.96	0.27	0.42	10056.05
2035	Year 7	3.863	31.336	61.582	0.141	4.837	0.509	5.346	1.048	0.476	1.524	12908.97	0.37	0.49	13064.37
2036	Year 8	1.570	13.362	28.765	0.062	2.073	0.222	2.294	0.445	0.208	0.653	5801.74	0.17	0.21	5867.94
2037	Year 9	0.201	2.018	3.966	0.009	0.306	0.030	0.336	0.065	0.029	0.094	832.12	0.02	0.03	841.90
Totals		**17.42**	**156.52**	**338.82**	**0.94**	**43.21**	**2.96**	**46.17**	**8.48**	**2.79**	**11.27**	**88611.42**	**2.01**	**5.90**	**90418.85**
												TBM Electricity Consumption			121,166.0
												Portable Office Electricity Consumption			70.7
												Alternative Total			**211,655.6**
												30 - Year Amortization			**7,055.2**

Sepulveda Transit Corridor Project - ALTERNATIVE 6

Schedule/Phasing[1]						Construction Materials[1]						Worker Trips[2,3]			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Workday Duration (Hours per day)[7]	Total Demo Debris (tons)	Excavation Quantity (CY)	Soil Movement Quantity (CY)	Concrete Quantity (CY)	Paving Area (SF)	Building Area (SF)	Trip Type	Workers per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)
Segment 1-Westside-Ground Improvements	5/1/2031	8/31/2031	6	105	20	-	-	-	1250	-	-	Worker	6	12	20.0
Segment 1-Westside-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	-	-	-	-	-	-	Worker	30	60	20.0
Segment 1-Westside-Tunnel Boring/Tunneling	9/1/2031	10/31/2032	6	366	20	-	460000	460000	-	-	-	Worker	50	100	20.0
Segment 1-Westside-TBM Retrieval/Tunnel Prep	11/1/2032	4/30/2033	6	156	20	-	-	-	-	-	-	Worker	20	40	20.0
Segment 1-Westside-Annular Grouting	9/1/2031	10/31/2032	6	366	20	-	-	-	38300	-	-	Worker	10	20	20.0
Segment 1-Westside-Invert Construction	4/1/2034	7/31/2034	6	104	20	-	-	-	40600	-	-	Worker	30	60	20.0
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	-	-	-	1900	-	-	Worker	20	40	20.0
Segment 1-Westside-Rail and Plinth	8/1/2034	1/31/2035	6	158	20	-	-	-	5600	-	-	Worker	20	40	20.0
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	-	-	-	-	-	-	Worker	20	40	20.0
Segment 2-Mountain-Ground Improvements	5/1/2031	8/31/2031	6	105	20	-	-	-	-	-	-	Worker	30	60	20.0
Segment 2-Mountain-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	-	-	-	-	-	-	Worker	30	60	20.0
Segment 2-Mountain-Tunnel Boring/Tunneling	9/1/2031	1/31/2034	6	758	20	-	1040000	1040000	-	-	-	Worker	50	100	20.0
Segment 2-Mountain-TBM Retrieval/Tunnel Prep	2/1/2034	7/31/2034	6	155	20	-	-	-	-	-	-	Worker	20	40	20.0
Segment 2-Mountain-Annular Grouting	9/1/2031	1/31/2034	6	758	20	-	-	-	70000	-	-	Worker	10	20	20.0
Segment 2-Mountain-Invert Construction	5/1/2035	2/28/2037	6	575	20	-	-	-	79500	-	-	Worker	30	60	20.0
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	-	-	-	4600	-	-	Worker	20	40	20.0
Segment 2-Mountain-Rail and Plinth	4/1/2036	3/31/2037	6	313	20	-	-	-	10900	-	-	Worker	20	40	20.0
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	-	-	-	-	-	-	Worker	20	40	20.0
Segment 3-Valley-Ground Improvements	5/1/2031	8/31/2031	6	105	20	-	-	-	2540	-	-	Worker	6	12	20.0
Segment 3-Valley-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	-	-	-	-	-	-	Worker	30	60	20.0
Segment 3-Valley-Tunnel Boring/Tunneling	9/1/2031	8/31/2032	6	314	20	-	854000	854000	-	-	-	Worker	50	100	20.0
Segment 3-Valley-TBM Retrieval/Tunnel Prep	9/1/2032	2/28/2033	6	155	20	-	-	-	-	-	-	Worker	20	40	20.0
Segment 3-Valley-Annular Grouting	9/1/2031	8/31/2032	6	314	20	-	-	-	46000	-	-	Worker	10	20	20.0
Segment 3-Valley-Invert Construction	4/1/2034	5/31/2035	6	365	20	-	-	-	52600	-	-	Worker	30	60	20.0
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	-	-	-	2900	-	-	Worker	20	40	20.0
Segment 3-Valley-Rail and Plinth	8/1/2034	9/30/2035	6	365	20	-	-	-	7200	-	-	Worker	20	40	20.0
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	-	-	-	-	-	-	Worker	20	40	20.0
Mid Mountain Shaft-Site Preparation/Demolition	11/1/2031	12/31/2031	6	52	10	-	-	-	1400	-	-	Worker	20	40	20.0
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	-	293000	293000	-	-	-	Worker	20	40	20.0
Mid Mountain Shaft-Drainage/Utilities	11/1/2031	12/31/2031	6	52	10	-	100	100	9	-	-	Worker	6	12	20.0
Mid Mountain Shaft-Shaft Drilling	1/1/2032	12/31/2032	6	314	10	-	31000	31000	-	-	-	Worker	20	40	20.0
Mid Mountain Shaft-Shaft Lining	1/1/2032	12/31/2032	6	314	10	-	-	-	-	-	-	Worker	20	40	20.0
Mid Mountain Shaft-Cavern and Adit	1/1/2033	12/31/2033	6	313	10	-	43000	43000	-	-	-	Worker	20	40	20.0
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	-	-	-	-	-	-	Worker	50	100	20.0
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	3092	-	-	-	-	-	Worker	20	40	20.0
Van Nuys Metrolink Station-Grading	4/1/2029	6/30/2029	6	78	10	-	-	-	-	-	-	Worker	5	10	20.0
Van Nuys Metrolink Station-Drainage	4/1/2029	7/31/2029	6	104	10	-	-	-	-	-	-	Worker	40	80	20.0
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	-	-	-	25833	-	-	Worker	40	80	20.0
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	-	346140	346140	-	-	-	Worker	20	40	20.0
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	-	-	-	58949	-	15000	Worker	60	120	20.0
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	-	-	-	-	220133	-	Worker	20	40	20.0
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	-	-	-	-	-	-	Worker	20	40	20.0
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	-	-	-	-	-	-	Worker	50	100	20.0
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	3056	-	-	-	-	-	Worker	20	40	20.0
Metro G Line Station-Grading	4/1/2029	6/30/2029	6	78	10	-	-	-	-	-	-	Worker	5	10	20.0
Metro G Line Station-Drainage	4/1/2029	7/31/2029	6	104	10	-	-	-	-	-	-	Worker	40	80	20.0
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	-	-	-	27228	-	-	Worker	40	80	20.0
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	-	436359	436359	-	-	-	Worker	20	40	20.0
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	-	-	-	74205	-	15000	Worker	60	120	20.0
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	-	-	-	-	109781	-	Worker	20	40	20.0
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	-	-	-	-	-	-	Worker	20	40	20.0

Sepulveda Transit Corridor Project - ALTERNATIVE 6

Schedule/Phasing[1]						Material/Soil Haul Trucks[5]				Precast Concrete Structures Haul Trucks[5]			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Workday Duration (Hours per day)[7]	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)
Segment 1-Westside-Ground Improvements	5/1/2031	8/31/2031	6	105	20	Haul	-	-	20.0	Haul	-	-	-
Segment 1-Westside-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	Haul	2	4	40.0	Haul	-	-	-
Segment 1-Westside-Tunnel Boring/Tunneling	9/1/2031	10/31/2032	6	366	20	Haul	80	160	20.0	Haul	25	50	20.0
Segment 1-Westside-TBM Retrieval/Tunnel Prep	11/1/2032	4/30/2033	6	156	20	Haul	1	2	20.0	Haul	-	-	-
Segment 1-Westside-Annular Grouting	9/1/2031	10/31/2032	6	366	20	Haul	-	-	20.0	Haul	-	-	-
Segment 1-Westside-Invert Construction	4/1/2034	7/31/2034	6	104	20	Haul	-	-	20.0	Haul	-	-	-
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	Haul	1	2	20.0	Haul	-	-	-
Segment 1-Westside-Rail and Plinth	8/1/2034	1/31/2035	6	158	20	Haul	-	-	20.0	Haul	-	-	-
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	Haul	2	4	20.0	Haul	-	-	-
Segment 2-Mountain-Ground Improvements	5/1/2031	8/31/2031	6	105	20	Haul	-	-	-	Haul	-	-	-
Segment 2-Mountain-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	Haul	2	4	40.0	Haul	-	-	-
Segment 2-Mountain-Tunnel Boring/Tunneling	9/1/2031	1/31/2034	6	758	20	Haul	70	140	20.0	Haul	24	48	20.0
Segment 2-Mountain-TBM Retrieval/Tunnel Prep	2/1/2034	7/31/2034	6	155	20	Haul	1	2	20.0	Haul	-	-	-
Segment 2-Mountain-Annular Grouting	9/1/2031	1/31/2034	6	758	20	Haul	-	-	20.0	Haul	-	-	-
Segment 2-Mountain-Invert Construction	5/1/2035	2/28/2037	6	575	20	Haul	-	-	20.0	Haul	-	-	-
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	Haul	1	2	20.0	Haul	-	-	-
Segment 2-Mountain-Rail and Plinth	4/1/2036	3/31/2037	6	313	20	Haul	-	-	20.0	Haul	-	-	-
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	Haul	2	4	20.0	Haul	-	-	-
Segment 3-Valley-Ground Improvements	5/1/2031	8/31/2031	6	105	20	Haul	-	-	-	Haul	-	-	-
Segment 3-Valley-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	Haul	2	4	40.0	Haul	-	-	-
Segment 3-Valley-Tunnel Boring/Tunneling	9/1/2031	8/31/2032	6	314	20	Haul	80	160	20.0	Haul	38	76	20.0
Segment 3-Valley-TBM Retrieval/Tunnel Prep	9/1/2032	2/28/2033	6	155	20	Haul	1	2	20.0	Haul	-	-	-
Segment 3-Valley-Annular Grouting	9/1/2031	8/31/2032	6	314	20	Haul	-	-	20.0	Haul	-	-	-
Segment 3-Valley-Invert Construction	4/1/2034	5/31/2035	6	365	20	Haul	-	-	20.0	Haul	-	-	-
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	Haul	1	2	20.0	Haul	-	-	-
Segment 3-Valley-Rail and Plinth	8/1/2034	9/30/2035	6	365	20	Haul	-	-	20.0	Haul	-	-	-
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	Haul	2	4	20.0	Haul	-	-	-
Mid Mountain Shaft-Site Preparation/Demolition	11/1/2031	12/31/2031	6	52	10	Haul	-	-	20.0	Haul	-	-	20.0
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	Haul	120	240	20.0	Haul	-	-	20.0
Mid Mountain Shaft-Drainage/Utilities	11/1/2031	12/31/2031	6	52	10	Haul	10	20	20.0	Haul	-	-	20.0
Mid Mountain Shaft-Shaft Drilling	1/1/2032	12/31/2032	6	314	10	Haul	10	-	20.0	Haul	-	-	20.0
Mid Mountain Shaft-Shaft Lining	1/1/2032	12/31/2032	6	314	10	Haul	-	-	20.0	Haul	2	4	20.0
Mid Mountain Shaft-Cavern and Adit	1/1/2033	12/31/2033	6	313	10	Haul	10	-	20.0	Haul	-	-	20.0
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Haul	1	2	20.0	Haul	-	-	20.0
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	Haul	1	2	20.0	Haul	-	-	20.0
Van Nuys Metrolink Station-Grading	4/1/2029	6/30/2029	6	78	10	Haul	1	2	20.0	Haul	-	-	20.0
Van Nuys Metrolink Station-Drainage	4/1/2029	7/31/2029	6	104	10	Haul	1	2	20.0	Haul	1	2	20.0
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	Haul	2	4	20.0	Haul	2	4	20.0
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	Haul	92	184	20.0	Haul	-	-	-
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	Haul	6	12	20.0	Haul	-	-	-
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Haul	2	4	20.0	Haul	-	-	-
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	Haul	1	2	20.0	Haul	1	2	20.0
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Haul	1	2	20.0	Haul	-	-	20.0
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	Haul	1	2	20.0	Haul	-	-	20.0
Metro G Line Station-Grading	4/1/2029	6/30/2029	6	78	10	Haul	1	2	20.0	Haul	-	-	20.0
Metro G Line Station-Drainage	4/1/2029	7/31/2029	6	104	10	Haul	1	2	20.0	Haul	1	2	20.0
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	Haul	2	4	20.0	Haul	2	4	20.0
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	Haul	116	232	20.0	Haul	-	-	-
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Haul	6	12	20.0	Haul	-	-	-
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Haul	2	4	20.0	Haul	-	-	-
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	Haul	1	2	20.0	Haul	1	2	20.0

Sepulveda Transit Corridor Project - ALTERNATIVE 6

Schedule/Phasing[1]						Concrete Truck Deliveries[4]				Water Trucks[6]			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Workday Duration (Hours per day)[7]	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)
Segment 1-Westside-Ground Improvements	5/1/2031	8/31/2031	6	105	20	Concrete	1	2	20.0	Water	3	6	2.0
Segment 1-Westside-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	Concrete	-	-	-	Water	3	6	2.0
Segment 1-Westside-Tunnel Boring/Tunneling	9/1/2031	10/31/2032	6	366	20	Concrete	-	-	-	Water	3	6	2.0
Segment 1-Westside-TBM Retrieval/Tunnel Prep	11/1/2032	4/30/2033	6	156	20	Concrete	-	-	-	Water	3	6	2.0
Segment 1-Westside-Annular Grouting	9/1/2031	10/31/2032	6	366	20	Concrete	13	26	20.0	Water	3	6	2.0
Segment 1-Westside-Invert Construction	4/1/2034	7/31/2034	6	104	20	Concrete	18	36	20.0	Water	3	6	2.0
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	Concrete	1	2	20.0	Water	3	6	2.0
Segment 1-Westside-Rail and Plinth	8/1/2034	1/31/2035	6	158	20	Concrete	5	10	20.0	Water	3	6	2.0
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	Concrete	-	-	-	Water	3	6	2.0
Segment 2-Mountain-Ground Improvements	5/1/2031	8/31/2031	6	105	20	Concrete	-	-	20.0	Water	3	6	2.0
Segment 2-Mountain-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	Concrete	-	-	-	Water	3	6	2.0
Segment 2-Mountain-Tunnel Boring/Tunneling	9/1/2031	1/31/2034	6	758	20	Concrete	-	-	-	Water	3	6	2.0
Segment 2-Mountain-TBM Retrieval/Tunnel Prep	2/1/2034	7/31/2034	6	155	20	Concrete	-	-	-	Water	3	6	2.0
Segment 2-Mountain-Annular Grouting	9/1/2031	1/31/2034	6	758	20	Concrete	12	24	20.0	Water	3	6	2.0
Segment 2-Mountain-Invert Construction	5/1/2035	2/28/2037	6	575	20	Concrete	18	36	20.0	Water	3	6	2.0
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	Concrete	1	2	20.0	Water	3	6	2.0
Segment 2-Mountain-Rail and Plinth	4/1/2036	3/31/2037	6	313	20	Concrete	4	8	20.0	Water	3	6	2.0
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	Concrete	-	-	-	Water	3	6	2.0
Segment 3-Valley-Ground Improvements	5/1/2031	8/31/2031	6	105	20	Concrete	1	2	20.0	Water	3	6	2.0
Segment 3-Valley-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	Concrete	-	-	-	Water	3	6	2.0
Segment 3-Valley-Tunnel Boring/Tunneling	9/1/2031	8/31/2032	6	314	20	Concrete	12	24	-	Water	3	6	2.0
Segment 3-Valley-TBM Retrieval/Tunnel Prep	9/1/2032	2/28/2033	6	155	20	Concrete	-	-	-	Water	3	6	2.0
Segment 3-Valley-Annular Grouting	9/1/2031	8/31/2032	6	314	20	Concrete	13	26	20.0	Water	3	6	2.0
Segment 3-Valley-Invert Construction	4/1/2034	5/31/2035	6	365	20	Concrete	18	36	20.0	Water	3	6	2.0
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	Concrete	1	2	20.0	Water	3	6	2.0
Segment 3-Valley-Rail and Plinth	8/1/2034	9/30/2035	6	365	20	Concrete	3	6	20.0	Water	3	6	2.0
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	Concrete	-	-	-	Water	3	6	2.0
Mid Mountain Shaft-Site Preparation/Demolition	11/1/2031	12/31/2031	6	52	10	Concrete	3	6	20.0	Water	3	6	20.0
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	Concrete	-	-	20.0	Water	3	6	20.0
Mid Mountain Shaft-Drainage/Utilities	11/1/2031	12/31/2031	6	52	10	Concrete	1	2	20.0	Water	3	6	20.0
Mid Mountain Shaft-Shaft Drilling	1/1/2032	12/31/2032	6	314	10	Concrete	-	-	20.0	Water	3	6	20.0
Mid Mountain Shaft-Shaft Lining	1/1/2032	12/31/2032	6	314	10	Concrete	-	-	20.0	Water	3	6	20.0
Mid Mountain Shaft-Cavern and Adit	1/1/2033	12/31/2033	6	313	10	Concrete	-	-	20.0	Water	3	6	20.0
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Concrete	1	2	20.0	Water	3	6	2.0
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	Concrete	-	-	-	Water	3	6	2.0
Van Nuys Metrolink Station-Grading	4/1/2029	6/30/2029	6	78	10	Concrete	-	-	-	Water	3	6	2.0
Van Nuys Metrolink Station-Drainage	4/1/2029	7/31/2029	6	104	10	Concrete	4	8	20.0	Water	3	6	2.0
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	Concrete	18	36	20.0	Water	3	6	2.0
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	Concrete	-	-	-	Water	3	6	2.0
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	Concrete	7	14	20.0	Water	3	6	2.0
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Concrete	-	-	-	Water	3	6	2.0
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	Concrete	1	2	20.0	Water	3	6	2.0
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Concrete	1	2	20.0	Water	3	6	2.0
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	Concrete	-	-	-	Water	3	6	2.0
Metro G Line Station-Grading	4/1/2029	6/30/2029	6	78	10	Concrete	-	-	-	Water	3	6	2.0
Metro G Line Station-Drainage	4/1/2029	7/31/2029	6	104	10	Concrete	4	8	20.0	Water	3	6	2.0
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	Concrete	19	38	20.0	Water	3	6	2.0
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	Concrete	-	-	-	Water	3	6	2.0
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Concrete	9	18	20.0	Water	3	6	2.0
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Concrete	-	-	-	Water	3	6	2.0
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	Concrete	1	2	20.0	Water	3	6	2.0

Sepulveda Transit Corridor Project - ALTERNATIVE 6

Schedule/Phasing[1]						Construction Materials[1]						Worker Trips[2,3]			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Workday Duration (Hours per day)[7]	Total Demo Debris (tons)	Excavation Quantity (CY)	Soil Movement Quantity (CY)	Concrete Quantity (CY)	Paving Area (SF)	Building Area (SF)	Trip Type	Workers per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	-	-	-	-	-	-	Worker	50	100	20.0
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	3217	-	-	-	-	-	Worker	20	40	20.0
Ventura Blvd Station-Grading	4/1/2029	7/31/2029	6	104	10	-	-	-	-	-	-	Worker	5	10	20.0
Ventura Blvd Station-Drainage	4/1/2029	6/30/2030	6	390	10	-	-	-	-	-	-	Worker	40	80	20.0
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	-	-	-	29297	-	-	Worker	40	80	20.0
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	-	344659	344659	-	-	-	Worker	20	40	20.0
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	-	-	-	56738	-	15000	Worker	60	120	20.0
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	-	-	-	-	145956	-	Worker	20	40	20.0
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	-	-	-	-	-	-	Worker	20	40	20.0
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	-	-	-	-	-	-	Worker	50	100	20.0
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	3043	-	-	-	-	-	Worker	20	40	20.0
UCLA Station-Grading	4/1/2029	6/30/2029	6	78	10	-	-	-	-	-	-	Worker	5	10	20.0
UCLA Station-Drainage	4/1/2029	12/31/2029	6	235	10	-	-	-	-	-	-	Worker	40	80	20.0
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	-	-	-	43284	-	-	Worker	40	80	20.0
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	-	513335	513335	-	-	-	Worker	20	40	20.0
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	-	-	-	59894	-	15000	Worker	60	120	20.0
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	-	-	-	-	62312	-	Worker	20	40	20.0
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	-	-	-	-	-	-	Worker	20	40	20.0
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	-	-	-	-	-	-	Worker	50	100	20.0
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2117	-	-	-	-	-	Worker	20	40	20.0
Wilshire Blvd (Metro D Line) Station-Grading	4/1/2029	6/30/2029	6	78	10	-	-	-	-	-	-	Worker	5	10	20.0
Wilshire Blvd (Metro D Line) Station-Drainage	4/1/2029	3/31/2030	6	312	10	-	-	-	-	-	-	Worker	40	80	20.0
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	-	-	-	33961	-	-	Worker	40	80	20.0
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	-	348655	348655	-	-	-	Worker	20	40	20.0
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	-	-	-	39224	-	15000	Worker	60	120	20.0
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	-	-	-	-	16628	-	Worker	20	40	20.0
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	-	-	-	-	-	-	Worker	20	40	20.0
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	-	-	-	-	-	-	Worker	50	100	20.0
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	157068	30000	-	-	-	-	Worker	20	40	20.0
Santa Monica Blvd Station-Grading	4/1/2029	6/30/2029	6	78	10	-	-	-	-	-	-	Worker	5	10	20.0
Santa Monica Blvd Station-Drainage	4/1/2029	7/31/2029	6	104	10	-	-	-	-	-	-	Worker	40	80	20.0
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	-	-	-	31608	-	-	Worker	40	80	20.0
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	-	-	395013	-	-	-	Worker	20	40	20.0
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	-	-	-	56244	-	15000	Worker	60	120	20.0
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	-	-	-	-	80148	-	Worker	20	40	20.0
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	-	-	-	-	-	-	Worker	20	40	20.0
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	-	-	-	-	-	-	Worker	50	100	20.0
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	3844	-	-	-	-	-	Worker	20	40	20.0
Metro E Line (Expo)/Bundy Station-Grading	4/1/2029	6/30/2029	6	78	10	-	-	-	-	-	-	Worker	5	10	20.0
Metro E Line (Expo)/Bundy Station-Drainage	4/1/2029	7/31/2029	6	104	10	-	-	-	-	-	-	Worker	40	80	20.0
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	-	-	-	46142	-	-	Worker	40	80	20.0
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	-	560984	560984	-	-	-	Worker	20	40	20.0
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	-	-	-	95909	-	15000	Worker	60	120	20.0
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	-	-	-	-	205485	-	Worker	20	40	20.0
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	-	-	-	-	-	-	Worker	20	40	20.0
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	-	2000	-	-	-	-	Worker	6	12	20.0
Vanowen St/Van Nuys Blvd TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	-	-	-	32	-	-	Worker	6	12	20.0
Vanowen St/Van Nuys Blvd TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	-	-	-	-	-	-	Worker	6	12	20.0
Magnolia TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	-	4000	-	-	-	-	Worker	6	12	20.0
Magnolia TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	-	-	-	32	-	-	Worker	6	12	20.0
Magnolia TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	-	-	-	-	-	-	Worker	6	12	20.0

Sepulveda Transit Corridor Project - ALTERNATIVE 6

Schedule/Phasing[1]						Material/Soil Haul Trucks[5]				Precast Concrete Structures Haul Trucks[5]			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Workday Duration (Hours per day)[7]	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Haul	1	2	20.0	Haul	-	-	20.0
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	Haul	1	2	20.0	Haul	-	-	20.0
Ventura Blvd Station-Grading	4/1/2029	7/31/2029	6	104	10	Haul	1	2	20.0	Haul	-	-	20.0
Ventura Blvd Station-Drainage	4/1/2029	6/30/2030	6	390	10	Haul	1	2	20.0	Haul	1	2	20.0
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	Haul	2	4	20.0	Haul	2	4	20.0
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	Haul	92	184	20.0	Haul	-	-	-
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Haul	6	12	20.0	Haul	-	-	-
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	Haul	2	4	20.0	Haul	-	-	-
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	Haul	1	2	20.0	Haul	1	2	20.0
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	Haul	1	2	20.0	Haul	-	-	20.0
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	Haul	1	2	20.0	Haul	-	-	20.0
UCLA Station-Grading	4/1/2029	6/30/2029	6	78	10	Haul	1	2	20.0	Haul	-	-	20.0
UCLA Station-Drainage	4/1/2029	12/31/2029	6	235	10	Haul	1	2	20.0	Haul	1	2	20.0
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	Haul	2	4	20.0	Haul	2	4	20.0
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	Haul	103	206	20.0	Haul	-	-	-
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	Haul	6	12	20.0	Haul	-	-	-
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	Haul	2	4	20.0	Haul	-	-	-
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	Haul	1	2	20.0	Haul	1	2	20.0
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Haul	1	2	20.0	Haul	-	-	20.0
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	Haul	1	2	20.0	Haul	-	-	20.0
Wilshire Blvd (Metro D Line) Station-Grading	4/1/2029	6/30/2029	6	78	10	Haul	1	2	20.0	Haul	-	-	20.0
Wilshire Blvd (Metro D Line) Station-Drainage	4/1/2029	3/31/2030	6	312	10	Haul	1	2	20.0	Haul	1	2	20.0
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	Haul	2	4	20.0	Haul	2	4	20.0
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	Haul	56	112	20.0	Haul	-	-	-
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Haul	6	12	20.0	Haul	-	-	-
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Haul	2	4	20.0	Haul	-	-	-
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	Haul	1	2	20.0	Haul	1	2	20.0
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Haul	1	2	20.0	Haul	-	-	20.0
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	Haul	1	2	20.0	Haul	-	-	20.0
Santa Monica Blvd Station-Grading	4/1/2029	6/30/2029	6	78	10	Haul	1	2	20.0	Haul	-	-	20.0
Santa Monica Blvd Station-Drainage	4/1/2029	7/31/2029	6	104	10	Haul	1	2	20.0	Haul	1	2	20.0
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	Haul	2	4	20.0	Haul	2	4	20.0
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	Haul	105	210	20.0	Haul	-	-	-
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Haul	6	12	20.0	Haul	-	-	-
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Haul	2	4	20.0	Haul	-	-	-
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	Haul	1	2	20.0	Haul	1	2	20.0
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Haul	1	2	20.0	Haul	-	-	20.0
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	Haul	1	2	20.0	Haul	-	-	20.0
Metro E Line (Expo)/Bundy Station-Grading	4/1/2029	6/30/2029	6	78	10	Haul	1	2	20.0	Haul	-	-	20.0
Metro E Line (Expo)/Bundy Station-Drainage	4/1/2029	7/31/2029	6	104	10	Haul	1	2	20.0	Haul	1	2	20.0
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	Haul	2	4	20.0	Haul	2	4	20.0
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	Haul	149	298	20.0	Haul	-	-	-
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	Haul	6	12	20.0	Haul	-	-	-
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Haul	2	4	20.0	Haul	-	-	-
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	Haul	1	2	20.0	Haul	1	2	20.0
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	Haul	1	2	20.0	Haul	-	-	-
Vanowen St/Van Nuys Blvd TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	Haul	-	-	-	Haul	-	-	-
Vanowen St/Van Nuys Blvd TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	Haul	-	-	-	Haul	-	-	-
Magnolia TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	Haul	1	2	20.0	Haul	-	-	-
Magnolia TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	Haul	-	-	-	Haul	-	-	-
Magnolia TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	Haul	-	-	-	Haul	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 6

Schedule/Phasing[1]						Concrete Truck Deliveries[4]				Water Trucks[6]			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Workday Duration (Hours per day)[7]	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Concrete	1	2	20.0	Water	3	6	2.0
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	Concrete	-	-	-	Water	3	6	2.0
Ventura Blvd Station-Grading	4/1/2029	7/31/2029	6	104	10	Concrete	-	-	-	Water	3	6	2.0
Ventura Blvd Station-Drainage	4/1/2029	6/30/2030	6	390	10	Concrete	4	8	20.0	Water	3	6	2.0
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	Concrete	21	42	20.0	Water	3	6	2.0
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	Concrete	-	-	-	Water	3	6	2.0
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Concrete	7	14	20.0	Water	3	6	2.0
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	Concrete	-	-	-	Water	3	6	2.0
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	Concrete	1	2	20.0	Water	3	6	2.0
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	Concrete	1	2	20.0	Water	3	6	2.0
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	Concrete	-	-	-	Water	3	6	2.0
UCLA Station-Grading	4/1/2029	6/30/2029	6	78	10	Concrete	-	-	-	Water	3	6	2.0
UCLA Station-Drainage	4/1/2029	12/31/2029	6	235	10	Concrete	4	8	20.0	Water	3	6	2.0
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	Concrete	31	62	20.0	Water	3	6	2.0
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	Concrete	-	-	-	Water	3	6	2.0
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	Concrete	7	14	20.0	Water	3	6	2.0
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	Concrete	-	-	-	Water	3	6	2.0
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	Concrete	1	2	20.0	Water	3	6	2.0
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Concrete	1	2	20.0	Water	3	6	2.0
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	Concrete	-	-	-	Water	3	6	2.0
Wilshire Blvd (Metro D Line) Station-Grading	4/1/2029	6/30/2029	6	78	10	Concrete	-	-	-	Water	3	6	2.0
Wilshire Blvd (Metro D Line) Station-Drainage	4/1/2029	3/31/2030	6	312	10	Concrete	4	8	20.0	Water	3	6	2.0
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	Concrete	18	36	20.0	Water	3	6	2.0
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	Concrete	-	-	-	Water	3	6	2.0
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Concrete	5	10	20.0	Water	3	6	2.0
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Concrete	-	-	-	Water	3	6	2.0
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	Concrete	1	2	20.0	Water	3	6	2.0
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Concrete	1	2	20.0	Water	3	6	2.0
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	Concrete	-	-	-	Water	3	6	2.0
Santa Monica Blvd Station-Grading	4/1/2029	6/30/2029	6	78	10	Concrete	-	-	-	Water	3	6	2.0
Santa Monica Blvd Station-Drainage	4/1/2029	7/31/2029	6	104	10	Concrete	4	8	20.0	Water	3	6	2.0
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	Concrete	23	46	20.0	Water	3	6	2.0
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	Concrete	-	-	-	Water	3	6	2.0
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Concrete	7	14	20.0	Water	3	6	2.0
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Concrete	-	-	-	Water	3	6	2.0
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	Concrete	1	2	20.0	Water	3	6	2.0
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Concrete	1	2	20.0	Water	3	6	2.0
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	Concrete	-	-	-	Water	3	6	2.0
Metro E Line (Expo)/Bundy Station-Grading	4/1/2029	6/30/2029	6	78	10	Concrete	-	-	-	Water	3	6	2.0
Metro E Line (Expo)/Bundy Station-Drainage	4/1/2029	7/31/2029	6	104	10	Concrete	4	8	20.0	Water	3	6	2.0
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	Concrete	16	32	20.0	Water	3	6	2.0
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	Concrete	-	-	-	Water	3	6	2.0
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	Concrete	11	22	20.0	Water	3	6	2.0
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Concrete	-	-	-	Water	3	6	2.0
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	Concrete	1	2	20.0	Water	3	6	2.0
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	Concrete	-	-	-	Water	3	6	2.0
Vanowen St/Van Nuys Blvd TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	Concrete	1	2	20.0	Water	3	6	2.0
Vanowen St/Van Nuys Blvd TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	Concrete	-	-	-	Water	3	6	2.0
Magnolia TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	Concrete	-	-	-	Water	3	6	2.0
Magnolia TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	Concrete	1	2	20.0	Water	3	6	2.0
Magnolia TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	Concrete	-	-	-	Water	3	6	2.0

Sepulveda Transit Corridor Project - ALTERNATIVE 6

Schedule/Phasing[1]						Construction Materials[1]						Worker Trips[2,3]			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Workday Duration (Hours per day)[7]	Total Demo Debris (tons)	Excavation Quantity (CY)	Soil Movement Quantity (CY)	Concrete Quantity (CY)	Paving Area (SF)	Building Area (SF)	Trip Type	Workers per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)
Mid Mountain Shaft TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	-	-	-	-	-	-	Worker	6	12	20.0
Mid Mountain Shaft TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	-	-	-	32	-	-	Worker	6	12	20.0
Mid Mountain Shaft TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	-	-	-	-	-	-	Worker	6	12	20.0
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	1229	-	12933	-	-	-	Worker	10	20	20.0
OMSF-Grading	2/1/2033	7/31/2033	5	129	8	-	-	-	-	-	-	Worker	10	20	20.0
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	-	-	-	-	-	175292	Worker	20	40	20.0
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	-	-	-	-	566278	-	Worker	10	20	20.0
OMSF-Drainage/Utilties	5/1/2033	10/31/2033	5	131	8	-	-	-	-	-	-	Worker	10	20	20.0
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	-	-	-	352360	-	-	Worker	20	40	20.0

Notes:

1. Phasing and material data provided by HTA team and based on structural designs.
2. Number of workers evaluated using CalEEMod methodology of 1.25 workers piece of equipment.
3. Worker trip length based on CalEEMod default value.
4. Concrete truck trip length based on CalEEMod default value for vendors.
5. Haul trips lengths based on project-specific data.
6. It was assumed water trucks would make 3 passes per day for ground/soil disturbing activities.
7. Daily workday hours account for safety meetings and lunch breaks.

Sepulveda Transit Corridor Project - ALTERNATIVE 6

Schedule/Phasing[1]						Material/Soil Haul Trucks[5]				Precast Concrete Structures Haul Trucks[5]			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Workday Duration (Hours per day)[7]	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)
Mid Mountain Shaft TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	Haul	1	2	20.0	Haul	-	-	-
Mid Mountain Shaft TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	Haul	-	-	-	Haul	-	-	-
Mid Mountain Shaft TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	Haul	-	-	-	Haul	-	-	-
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	Haul	-	-	-	Haul	-	-	-
OMSF-Grading	2/1/2033	7/31/2033	5	129	8	Haul	-	-	-	Haul	-	-	-
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	Haul	-	-	-	Haul	-	-	-
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	Haul	-	-	-	Haul	-	-	-
OMSF-Drainage/Utilties	5/1/2033	10/31/2033	5	131	8	Haul	-	-	-	Haul	-	-	-
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	Haul	28	56	20.0	Haul	-	-	-

Notes:

1. Phasing and material data provided by HTA team and based on structural designs.
2. Number of workers evaluated using CalEEMod methodology of 1.25 workers piece of equipment.
3. Worker trip length based on CalEEMod default value.
4. Concrete truck trip length based on CalEEMod default value for vendors.
5. Haul trips lengths based on project-specific data.
6. It was assumed water trucks would make 3 passes per day for ground/soil disturbing activities.
7. Daily workday hours account for safety meetings and lunch breaks.

Sepulveda Transit Corridor Project - ALTERNATIVE 6

Schedule/Phasing[1] **Concrete Truck Deliveries[4]** **Water Trucks[6]**

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Workday Duration (Hours per day)[7]	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)
Mid Mountain Shaft TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	Concrete	-	-	-	Water	3	6	2.0
Mid Mountain Shaft TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	Concrete	1	2	20.0	Water	3	6	2.0
Mid Mountain Shaft TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	Concrete	-	-	-	Water	3	6	2.0
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	Concrete	-	-	-	Water	3	6	2.0
OMSF-Grading	2/1/2033	7/31/2033	5	129	8	Concrete	-	-	-	Water	3	6	2.0
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	Concrete	-	-	-	Water	3	6	2.0
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	Concrete	-	-	-	Water	3	6	2.0
OMSF-Drainage/Utilties	5/1/2033	10/31/2033	5	131	8	Concrete	-	-	-	Water	3	6	2.0
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	Concrete	-	-	-	Water	3	6	2.0

Notes:

1. Phasing and material data provided by HTA team and based on structural designs.
2. Number of workers evaluated using CalEEMod methodology of 1.25 workers piece of equipment.
3. Worker trip length based on CalEEMod default value.
4. Concrete truck trip length based on CalEEMod default value for vendors.
5. Haul trips lengths based on project-specific data.
6. It was assumed water trucks would make 3 passes per day for ground/soil disturbing activities.
7. Daily workday hours account for safety meetings and lunch breaks.

Sepulveda Transit Corridor Project - ALTERNATIVE 6

Off-Road Equipment Fleet

Phase Name	Equipment Type	Quantity	Usage (Hrs/day)	Fuel Type
Segment 1-Westside-Ground Improvements	Bore/Drill Rigs	2	17.0	Diesel
Segment 1-Westside-Ground Improvements	Pumps	2	17.0	Diesel
Segment 1-Westside-Tunnel Boring Setup/Assembly	Cranes	2	17.0	Diesel
Segment 1-Westside-Tunnel Boring Setup/Assembly	Aerial Lifts	2	17.0	Diesel
Segment 1-Westside-Tunnel Boring Setup/Assembly	Rough Terrain Forklifts	2	17.0	Diesel
Segment 1-Westside-Tunnel Boring/Tunneling	Tunnel Boring Machine (TBM)	2	17.0	Electric
Segment 1-Westside-Tunnel Boring/Tunneling	Cranes	1	17.0	Diesel
Segment 1-Westside-Tunnel Boring/Tunneling	Rough Terrain Forklifts	2	17.0	Diesel
Segment 1-Westside-TBM Retrieval/Tunnel Prep	Cranes	2	17.0	Diesel
Segment 1-Westside-TBM Retrieval/Tunnel Prep	Aerial Lifts	2	17.0	Diesel
Segment 1-Westside-Annular Grouting	Bore/Drill Rigs	2	17.0	Diesel
Segment 1-Westside-Annular Grouting	Pumps	2	17.0	Diesel
Segment 1-Westside-Invert Construction	Pumps	2	17.0	Diesel
Segment 1-Westside-Cross Passage	Excavators	2	17.0	Diesel
Segment 1-Westside-Cross Passage	Pumps	2	17.0	Diesel
Segment 1-Westside-Cross Passage	Tractors/Loaders/Backhoes	2	17.0	Diesel
Segment 1-Westside-Cross Passage	Air Compressors	2	17.0	Diesel
Segment 1-Westside-Rail and Plinth	Pumps	1	17.0	Diesel
Segment 1-Westside-Systems, Testing, Commissioning	Aerial Lifts	8	17.0	Diesel
Segment 1-Westside-Systems, Testing, Commissioning	Rough Terrain Forklifts	2	17.0	Diesel
Segment 1-Westside-Systems, Testing, Commissioning	Generator Sets	1	17.0	Diesel
Segment 1-Westside-Systems, Testing, Commissioning	Aerial Lifts	4	17.0	Diesel
Segment 2-Mountain-Ground Improvements	Bore/Drill Rigs	2	17.0	Diesel
Segment 2-Mountain-Ground Improvements	Pumps	2	17.0	Diesel
Segment 2-Mountain-Tunnel Boring Setup/Assembly	Cranes	2	17.0	Diesel
Segment 2-Mountain-Tunnel Boring Setup/Assembly	Aerial Lifts	2	17.0	Diesel
Segment 2-Mountain-Tunnel Boring Setup/Assembly	Rough Terrain Forklifts	2	17.0	Diesel
Segment 2-Mountain-Tunnel Boring/Tunneling	Tunnel Boring Machine (TBM)	2	17.0	Electric
Segment 2-Mountain-Tunnel Boring/Tunneling	Cranes	1	17.0	Diesel
Segment 2-Mountain-Tunnel Boring/Tunneling	Rough Terrain Forklifts	2	17.0	Diesel
Segment 2-Mountain-TBM Retrieval/Tunnel Prep	Cranes	2	17.0	Diesel
Segment 2-Mountain-TBM Retrieval/Tunnel Prep	Aerial Lifts	2	17.0	Diesel
Segment 2-Mountain-Annular Grouting	Bore/Drill Rigs	2	17.0	Diesel
Segment 2-Mountain-Annular Grouting	Pumps	2	17.0	Diesel
Segment 2-Mountain-Invert Construction	Pumps	2	17.0	Diesel
Segment 2-Mountain-Cross Passage	Excavators	2	17.0	Diesel
Segment 2-Mountain-Cross Passage	Pumps	2	17.0	Diesel
Segment 2-Mountain-Cross Passage	Tractors/Loaders/Backhoes	2	17.0	Diesel
Segment 2-Mountain-Cross Passage	Air Compressors	2	17.0	Diesel
Segment 2-Mountain-Rail and Plinth	Pumps	1	17.0	Diesel
Segment 2-Mountain-Systems, Testing, Commissioning	Aerial Lifts	8	17.0	Diesel
Segment 2-Mountain-Systems, Testing, Commissioning	Rough Terrain Forklifts	2	17.0	Diesel
Segment 2-Mountain-Systems, Testing, Commissioning	Generator Sets	1	17.0	Diesel
Segment 2-Mountain-Systems, Testing, Commissioning	Aerial Lifts	4	17.0	Diesel
Segment 3-Valley-Ground Improvements	Bore/Drill Rigs	2	17.0	Diesel
Segment 3-Valley-Ground Improvements	Pumps	2	17.0	Diesel
Segment 3-Valley-Tunnel Boring Setup/Assembly	Cranes	2	17.0	Diesel
Segment 3-Valley-Tunnel Boring Setup/Assembly	Aerial Lifts	2	17.0	Diesel
Segment 3-Valley-Tunnel Boring Setup/Assembly	Rough Terrain Forklifts	2	17.0	Diesel
Segment 3-Valley-Tunnel Boring/Tunneling	Tunnel Boring Machine (TBM)	2	17.0	Electric
Segment 3-Valley-Tunnel Boring/Tunneling	Cranes	1	17.0	Diesel
Segment 3-Valley-Tunnel Boring/Tunneling	Rough Terrain Forklifts	2	17.0	Diesel
Segment 3-Valley-TBM Retrieval/Tunnel Prep	Cranes	2	17.0	Diesel
Segment 3-Valley-TBM Retrieval/Tunnel Prep	Aerial Lifts	2	17.0	Diesel
Segment 3-Valley-Annular Grouting	Bore/Drill Rigs	2	17.0	Diesel
Segment 3-Valley-Annular Grouting	Pumps	2	17.0	Diesel
Segment 3-Valley-Invert Construction	Pumps	2	17.0	Diesel

Sepulveda Transit Corridor Project - ALTERNATIVE 6

Off-Road Equipment Fleet

Phase Name	Equipment Type	Quantity	Usage (Hrs/day)	Fuel Type
Segment 3-Valley-Cross Passage	Excavators	2	17.0	Diesel
Segment 3-Valley-Cross Passage	Pumps	2	17.0	Diesel
Segment 3-Valley-Cross Passage	Tractors/Loaders/Backhoes	2	17.0	Diesel
Segment 3-Valley-Cross Passage	Air Compressors	2	17.0	Diesel
Segment 3-Valley-Rail and Plinth	Pumps	1	17.0	Diesel
Segment 3-Valley-Systems, Testing, Commissioning	Aerial Lifts	8	17.0	Diesel
Segment 3-Valley-Systems, Testing, Commissioning	Rough Terrain Forklifts	2	17.0	Diesel
Segment 3-Valley-Systems, Testing, Commissioning	Generator Sets	1	17.0	Diesel
Segment 3-Valley-Systems, Testing, Commissioning	Aerial Lifts	4	17.0	Diesel
Mid Mountain Shaft-Site Preparation/Demolition	Tractors/Loaders/Backhoes	2	8.5	Diesel
Mid Mountain Shaft-Site Preparation/Demolition	Excavators	1	8.5	Diesel
Mid Mountain Shaft-Access Road	Tractors/Loaders/Backhoes	2	8.5	Diesel
Mid Mountain Shaft-Access Road	Pavers	1	8.5	Diesel
Mid Mountain Shaft-Access Road	Rollers	1	8.5	Diesel
Mid Mountain Shaft-Access Road	Excavators	1	8.5	Diesel
Mid Mountain Shaft-Access Road	Scrapers	1	8.5	Diesel
Mid Mountain Shaft-Access Road	Crawler Tractors	2	8.5	Diesel
Mid Mountain Shaft-Drainage/Utilities	Excavators	1	8.5	Diesel
Mid Mountain Shaft-Drainage/Utilities	Pumps	1	8.5	Diesel
Mid Mountain Shaft-Drainage/Utilities	Rollers	1	8.5	Diesel
Mid Mountain Shaft-Shaft Drilling	Bore/Drill Rigs	1	8.5	Diesel
Mid Mountain Shaft-Shaft Drilling	Cranes	1	8.5	Diesel
Mid Mountain Shaft-Shaft Drilling	Tractors/Loaders/Backhoes	1	8.5	Diesel
Mid Mountain Shaft-Cavern and Adit	Excavators	2	8.5	Diesel
Mid Mountain Shaft-Cavern and Adit	Pumps	2	8.5	Diesel
Van Nuys Metrolink Station-Utility Relocation	Concrete/Industrial Saws	2	8.5	Diesel
Van Nuys Metrolink Station-Utility Relocation	Cranes	1	8.5	Diesel
Van Nuys Metrolink Station-Utility Relocation	Excavators	2	8.5	Diesel
Van Nuys Metrolink Station-Utility Relocation	Rough Terrain Forklifts	2	8.5	Diesel
Van Nuys Metrolink Station-Utility Relocation	Trenchers	1	8.5	Diesel
Van Nuys Metrolink Station-Utility Relocation	Rollers	2	8.5	Diesel
Van Nuys Metrolink Station-Utility Relocation	Cement and Mortar Mixers	1	8.5	Diesel
Van Nuys Metrolink Station-Utility Relocation	Pavers	1	8.5	Diesel
Van Nuys Metrolink Station-Utility Relocation	Surfacing Equipment	1	8.5	Diesel
Van Nuys Metrolink Station-Utility Relocation	Sweepers/Scrubbers	1	8.5	Diesel
Van Nuys Metrolink Station-Site Preparation/Demolition	Tractors/Loaders/Backhoes	4	8.5	Diesel
Van Nuys Metrolink Station-Site Preparation/Demolition	Excavators	2	8.5	Diesel
Van Nuys Metrolink Station-Site Preparation/Demolition	Concrete/Industrial Saws	2	8.5	Diesel
Van Nuys Metrolink Station-Site Preparation/Demolition	Skid Steer Loaders	2	8.5	Diesel
Van Nuys Metrolink Station-Grading	Crawler Tractors	2	8.5	Diesel
Van Nuys Metrolink Station-Grading	Excavators	2	8.5	Diesel
Van Nuys Metrolink Station-Drainage	Excavators	2	8.5	Diesel
Van Nuys Metrolink Station-Drainage	Pumps	2	8.5	Diesel
Van Nuys Metrolink Station-Drainage	Rollers	1	8.5	Diesel
Van Nuys Metrolink Station-SOE	Bore/Drill Rigs	2	8.5	Diesel
Van Nuys Metrolink Station-SOE	Excavators	4	8.5	Diesel
Van Nuys Metrolink Station-SOE	Rough Terrain Forklifts	2	8.5	Diesel
Van Nuys Metrolink Station-SOE	Cranes	2	8.5	Diesel
Van Nuys Metrolink Station-SOE	Pumps	2	8.5	Diesel
Van Nuys Metrolink Station-Station Excavation	Cranes	2	8.5	Diesel
Van Nuys Metrolink Station-Station Excavation	Excavators	6	8.5	Diesel
Van Nuys Metrolink Station-Station Excavation	Tractors/Loaders/Backhoes	2	8.5	Diesel
Van Nuys Metrolink Station-Station Excavation	Rough Terrain Forklifts	2	8.5	Diesel
Van Nuys Metrolink Station-Station Excavation	Aerial Lifts	2	8.5	Diesel

Sepulveda Transit Corridor Project - ALTERNATIVE 6

Off-Road Equipment Fleet

Phase Name	Equipment Type	Quantity	Usage (Hrs/day)	Fuel Type
Van Nuys Metrolink Station-Station Construction	Cranes	2	8.5	Diesel
Van Nuys Metrolink Station-Station Construction	Pumps	3	8.5	Diesel
Van Nuys Metrolink Station-Station Construction	Rough Terrain Forklifts	2	8.5	Diesel
Van Nuys Metrolink Station-Station Construction	Aerial Lifts	3	8.5	Diesel
Van Nuys Metrolink Station-Station Construction	Air Compressors	2	8.5	Diesel
Van Nuys Metrolink Station-Station Construction	Welders	2	8.5	Diesel
Van Nuys Metrolink Station-Station Construction	Generator Sets	2	8.5	Diesel
Van Nuys Metrolink Station-Final Roadway Construction	Tractors/Loaders/Backhoes	2	8.5	Diesel
Van Nuys Metrolink Station-Final Roadway Construction	Skid Steer Loaders	1	8.5	Diesel
Van Nuys Metrolink Station-Final Roadway Construction	Pavers	2	8.5	Diesel
Van Nuys Metrolink Station-Final Roadway Construction	Surfacing Equipment	1	8.5	Diesel
Van Nuys Metrolink Station-Final Roadway Construction	Sweepers/Scrubbers	1	8.5	Diesel
Van Nuys Metrolink Station-Final Roadway Construction	Rollers	2	8.5	Diesel
Van Nuys Metrolink Station-Station Finishes and Testing	Aerial Lifts	4	8.5	Diesel
Van Nuys Metrolink Station-Station Finishes and Testing	Generator Sets	1	8.5	Diesel
Van Nuys Metrolink Station-Station Finishes and Testing	Forklifts	2	8.5	Diesel
Van Nuys Metrolink Station-Station Finishes and Testing	Air Compressors	2	8.5	Diesel
Metro G Line Station-Utility Relocation	Concrete/Industrial Saws	2	8.5	Diesel
Metro G Line Station-Utility Relocation	Cranes	1	8.5	Diesel
Metro G Line Station-Utility Relocation	Excavators	2	8.5	Diesel
Metro G Line Station-Utility Relocation	Rough Terrain Forklifts	2	8.5	Diesel
Metro G Line Station-Utility Relocation	Trenchers	1	8.5	Diesel
Metro G Line Station-Utility Relocation	Rollers	2	8.5	Diesel
Metro G Line Station-Utility Relocation	Cement and Mortar Mixers	1	8.5	Diesel
Metro G Line Station-Utility Relocation	Pavers	1	8.5	Diesel
Metro G Line Station-Utility Relocation	Surfacing Equipment	1	8.5	Diesel
Metro G Line Station-Utility Relocation	Sweepers/Scrubbers	1	8.5	Diesel
Metro G Line Station-Site Preparation/Demolition	Tractors/Loaders/Backhoes	4	8.5	Diesel
Metro G Line Station-Site Preparation/Demolition	Excavators	2	8.5	Diesel
Metro G Line Station-Site Preparation/Demolition	Concrete/Industrial Saws	2	8.5	Diesel
Metro G Line Station-Site Preparation/Demolition	Skid Steer Loaders	2	8.5	Diesel
Metro G Line Station-Grading	Crawler Tractors	2	8.5	Diesel
Metro G Line Station-Grading	Excavators	2	8.5	Diesel
Metro G Line Station-Drainage	Excavators	2	8.5	Diesel
Metro G Line Station-Drainage	Pumps	2	8.5	Diesel
Metro G Line Station-Drainage	Rollers	1	8.5	Diesel
Metro G Line Station-SOE	Bore/Drill Rigs	2	8.5	Diesel
Metro G Line Station-SOE	Excavators	4	8.5	Diesel
Metro G Line Station-SOE	Rough Terrain Forklifts	2	8.5	Diesel
Metro G Line Station-SOE	Cranes	2	8.5	Diesel
Metro G Line Station-SOE	Pumps	2	8.5	Diesel
Metro G Line Station-Station Excavation	Cranes	2	8.5	Diesel
Metro G Line Station-Station Excavation	Excavators	6	8.5	Diesel
Metro G Line Station-Station Excavation	Tractors/Loaders/Backhoes	2	8.5	Diesel
Metro G Line Station-Station Excavation	Rough Terrain Forklifts	2	8.5	Diesel
Metro G Line Station-Station Excavation	Aerial Lifts	2	8.5	Diesel
Metro G Line Station-Station Construction	Cranes	2	8.5	Diesel
Metro G Line Station-Station Construction	Pumps	3	8.5	Diesel
Metro G Line Station-Station Construction	Rough Terrain Forklifts	2	8.5	Diesel
Metro G Line Station-Station Construction	Aerial Lifts	3	8.5	Diesel
Metro G Line Station-Station Construction	Air Compressors	2	8.5	Diesel
Metro G Line Station-Station Construction	Welders	2	8.5	Diesel
Metro G Line Station-Station Construction	Generator Sets	2	8.5	Diesel
Metro G Line Station-Final Roadway Construction	Tractors/Loaders/Backhoes	2	8.5	Diesel
Metro G Line Station-Final Roadway Construction	Skid Steer Loaders	1	8.5	Diesel
Metro G Line Station-Final Roadway Construction	Pavers	2	8.5	Diesel
Metro G Line Station-Final Roadway Construction	Surfacing Equipment	1	8.5	Diesel
Metro G Line Station-Final Roadway Construction	Sweepers/Scrubbers	1	8.5	Diesel
Metro G Line Station-Final Roadway Construction	Rollers	2	8.5	Diesel

Sepulveda Transit Corridor Project - ALTERNATIVE 6

Off-Road Equipment Fleet

Phase Name	Equipment Type	Quantity	Usage (Hrs/day)	Fuel Type
Metro G Line Station-Station Finishes and Testing	Aerial Lifts	4	8.5	Diesel
Metro G Line Station-Station Finishes and Testing	Generator Sets	1	8.5	Diesel
Metro G Line Station-Station Finishes and Testing	Forklifts	2	8.5	Diesel
Metro G Line Station-Station Finishes and Testing	Air Compressors	2	8.5	Diesel
Ventura Blvd Station-Utility Relocation	Concrete/Industrial Saws	2	8.5	Diesel
Ventura Blvd Station-Utility Relocation	Cranes	1	8.5	Diesel
Ventura Blvd Station-Utility Relocation	Excavators	2	8.5	Diesel
Ventura Blvd Station-Utility Relocation	Rough Terrain Forklifts	2	8.5	Diesel
Ventura Blvd Station-Utility Relocation	Trenchers	1	8.5	Diesel
Ventura Blvd Station-Utility Relocation	Rollers	2	8.5	Diesel
Ventura Blvd Station-Utility Relocation	Cement and Mortar Mixers	1	8.5	Diesel
Ventura Blvd Station-Utility Relocation	Pavers	1	8.5	Diesel
Ventura Blvd Station-Utility Relocation	Surfacing Equipment	1	8.5	Diesel
Ventura Blvd Station-Utility Relocation	Sweepers/Scrubbers	1	8.5	Diesel
Ventura Blvd Station-Site Preparation/Demolition	Tractors/Loaders/Backhoes	4	8.5	Diesel
Ventura Blvd Station-Site Preparation/Demolition	Excavators	2	8.5	Diesel
Ventura Blvd Station-Site Preparation/Demolition	Concrete/Industrial Saws	2	8.5	Diesel
Ventura Blvd Station-Site Preparation/Demolition	Skid Steer Loaders	2	8.5	Diesel
Ventura Blvd Station-Grading	Crawler Tractors	2	8.5	Diesel
Ventura Blvd Station-Grading	Excavators	2	8.5	Diesel
Ventura Blvd Station-Drainage	Excavators	2	8.5	Diesel
Ventura Blvd Station-Drainage	Pumps	2	8.5	Diesel
Ventura Blvd Station-Drainage	Rollers	1	8.5	Diesel
Ventura Blvd Station-SOE	Bore/Drill Rigs	2	8.5	Diesel
Ventura Blvd Station-SOE	Excavators	4	8.5	Diesel
Ventura Blvd Station-SOE	Rough Terrain Forklifts	2	8.5	Diesel
Ventura Blvd Station-SOE	Cranes	2	8.5	Diesel
Ventura Blvd Station-SOE	Pumps	2	8.5	Diesel
Ventura Blvd Station-Station Excavation	Cranes	2	8.5	Diesel
Ventura Blvd Station-Station Excavation	Excavators	6	8.5	Diesel
Ventura Blvd Station-Station Excavation	Tractors/Loaders/Backhoes	2	8.5	Diesel
Ventura Blvd Station-Station Excavation	Rough Terrain Forklifts	2	8.5	Diesel
Ventura Blvd Station-Station Excavation	Aerial Lifts	2	8.5	Diesel
Ventura Blvd Station-Station Construction	Cranes	2	8.5	Diesel
Ventura Blvd Station-Station Construction	Pumps	3	8.5	Diesel
Ventura Blvd Station-Station Construction	Rough Terrain Forklifts	2	8.5	Diesel
Ventura Blvd Station-Station Construction	Aerial Lifts	3	8.5	Diesel
Ventura Blvd Station-Station Construction	Air Compressors	2	8.5	Diesel
Ventura Blvd Station-Station Construction	Welders	2	8.5	Diesel
Ventura Blvd Station-Station Construction	Generator Sets	2	8.5	Diesel
Ventura Blvd Station-Final Roadway Construction	Tractors/Loaders/Backhoes	2	8.5	Diesel
Ventura Blvd Station-Final Roadway Construction	Skid Steer Loaders	1	8.5	Diesel
Ventura Blvd Station-Final Roadway Construction	Pavers	2	8.5	Diesel
Ventura Blvd Station-Final Roadway Construction	Surfacing Equipment	1	8.5	Diesel
Ventura Blvd Station-Final Roadway Construction	Sweepers/Scrubbers	1	8.5	Diesel
Ventura Blvd Station-Final Roadway Construction	Rollers	2	8.5	Diesel
Ventura Blvd Station-Station Finishes and Testing	Aerial Lifts	4	8.5	Diesel
Ventura Blvd Station-Station Finishes and Testing	Generator Sets	1	8.5	Diesel
Ventura Blvd Station-Station Finishes and Testing	Forklifts	2	8.5	Diesel
Ventura Blvd Station-Station Finishes and Testing	Air Compressors	2	8.5	Diesel

Sepulveda Transit Corridor Project - ALTERNATIVE 6

Off-Road Equipment Fleet

Phase Name	Equipment Type	Quantity	Usage (Hrs/day)	Fuel Type
UCLA Station-Utility Relocation	Concrete/Industrial Saws	2	8.5	Diesel
UCLA Station-Utility Relocation	Cranes	1	8.5	Diesel
UCLA Station-Utility Relocation	Excavators	2	8.5	Diesel
UCLA Station-Utility Relocation	Rough Terrain Forklifts	2	8.5	Diesel
UCLA Station-Utility Relocation	Trenchers	1	8.5	Diesel
UCLA Station-Utility Relocation	Rollers	2	8.5	Diesel
UCLA Station-Utility Relocation	Cement and Mortar Mixers	1	8.5	Diesel
UCLA Station-Utility Relocation	Pavers	1	8.5	Diesel
UCLA Station-Utility Relocation	Surfacing Equipment	1	8.5	Diesel
UCLA Station-Utility Relocation	Sweepers/Scrubbers	1	8.5	Diesel
UCLA Station-Site Preparation/Demolition	Tractors/Loaders/Backhoes	4	8.5	Diesel
UCLA Station-Site Preparation/Demolition	Excavators	2	8.5	Diesel
UCLA Station-Site Preparation/Demolition	Concrete/Industrial Saws	2	8.5	Diesel
UCLA Station-Site Preparation/Demolition	Skid Steer Loaders	2	8.5	Diesel
UCLA Station-Grading	Crawler Tractors	2	8.5	Diesel
UCLA Station-Grading	Excavators	2	8.5	Diesel
UCLA Station-Drainage	Excavators	2	8.5	Diesel
UCLA Station-Drainage	Pumps	2	8.5	Diesel
UCLA Station-Drainage	Rollers	1	8.5	Diesel
UCLA Station-SOE	Bore/Drill Rigs	2	8.5	Diesel
UCLA Station-SOE	Excavators	4	8.5	Diesel
UCLA Station-SOE	Rough Terrain Forklifts	2	8.5	Diesel
UCLA Station-SOE	Cranes	2	8.5	Diesel
UCLA Station-SOE	Pumps	2	8.5	Diesel
UCLA Station-Station Excavation	Cranes	2	8.5	Diesel
UCLA Station-Station Excavation	Excavators	6	8.5	Diesel
UCLA Station-Station Excavation	Tractors/Loaders/Backhoes	2	8.5	Diesel
UCLA Station-Station Excavation	Rough Terrain Forklifts	2	8.5	Diesel
UCLA Station-Station Excavation	Aerial Lifts	2	8.5	Diesel
UCLA Station-Station Construction	Cranes	2	8.5	Diesel
UCLA Station-Station Construction	Pumps	3	8.5	Diesel
UCLA Station-Station Construction	Rough Terrain Forklifts	2	8.5	Diesel
UCLA Station-Station Construction	Aerial Lifts	3	8.5	Diesel
UCLA Station-Station Construction	Air Compressors	2	8.5	Diesel
UCLA Station-Station Construction	Welders	2	8.5	Diesel
UCLA Station-Station Construction	Generator Sets	2	8.5	Diesel
UCLA Station-Final Roadway Construction	Tractors/Loaders/Backhoes	2	8.5	Diesel
UCLA Station-Final Roadway Construction	Skid Steer Loaders	1	8.5	Diesel
UCLA Station-Final Roadway Construction	Pavers	2	8.5	Diesel
UCLA Station-Final Roadway Construction	Surfacing Equipment	1	8.5	Diesel
UCLA Station-Final Roadway Construction	Sweepers/Scrubbers	1	8.5	Diesel
UCLA Station-Final Roadway Construction	Rollers	2	8.5	Diesel
UCLA Station-Station Finishes and Testing	Aerial Lifts	4	8.5	Diesel
UCLA Station-Station Finishes and Testing	Generator Sets	1	8.5	Diesel
UCLA Station-Station Finishes and Testing	Forklifts	2	8.5	Diesel
UCLA Station-Station Finishes and Testing	Air Compressors	2	8.5	Diesel
Wilshire Blvd (Metro D Line) Station-Utility Relocation	Concrete/Industrial Saws	2	8.5	Diesel
Wilshire Blvd (Metro D Line) Station-Utility Relocation	Cranes	1	8.5	Diesel
Wilshire Blvd (Metro D Line) Station-Utility Relocation	Excavators	2	8.5	Diesel
Wilshire Blvd (Metro D Line) Station-Utility Relocation	Rough Terrain Forklifts	2	8.5	Diesel
Wilshire Blvd (Metro D Line) Station-Utility Relocation	Trenchers	1	8.5	Diesel
Wilshire Blvd (Metro D Line) Station-Utility Relocation	Rollers	2	8.5	Diesel
Wilshire Blvd (Metro D Line) Station-Utility Relocation	Cement and Mortar Mixers	1	8.5	Diesel
Wilshire Blvd (Metro D Line) Station-Utility Relocation	Pavers	1	8.5	Diesel
Wilshire Blvd (Metro D Line) Station-Utility Relocation	Surfacing Equipment	1	8.5	Diesel
Wilshire Blvd (Metro D Line) Station-Utility Relocation	Sweepers/Scrubbers	1	8.5	Diesel

Sepulveda Transit Corridor Project - ALTERNATIVE 6

Off-Road Equipment Fleet

Phase Name	Equipment Type	Quantity	Usage (Hrs/day)	Fuel Type
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolition	Tractors/Loaders/Backhoes	4	8.5	Diesel
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolition	Excavators	2	8.5	Diesel
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolition	Concrete/Industrial Saws	2	8.5	Diesel
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolition	Skid Steer Loaders	2	8.5	Diesel
Wilshire Blvd (Metro D Line) Station-Grading	Crawler Tractors	2	8.5	Diesel
Wilshire Blvd (Metro D Line) Station-Grading	Excavators	2	8.5	Diesel
Wilshire Blvd (Metro D Line) Station-Drainage	Excavators	2	8.5	Diesel
Wilshire Blvd (Metro D Line) Station-Drainage	Pumps	2	8.5	Diesel
Wilshire Blvd (Metro D Line) Station-Drainage	Rollers	1	8.5	Diesel
Wilshire Blvd (Metro D Line) Station-SOE	Bore/Drill Rigs	2	8.5	Diesel
Wilshire Blvd (Metro D Line) Station-SOE	Excavators	4	8.5	Diesel
Wilshire Blvd (Metro D Line) Station-SOE	Rough Terrain Forklifts	2	8.5	Diesel
Wilshire Blvd (Metro D Line) Station-SOE	Cranes	2	8.5	Diesel
Wilshire Blvd (Metro D Line) Station-SOE	Pumps	2	8.5	Diesel
Wilshire Blvd (Metro D Line) Station-Station Excavation	Cranes	2	8.5	Diesel
Wilshire Blvd (Metro D Line) Station-Station Excavation	Excavators	6	8.5	Diesel
Wilshire Blvd (Metro D Line) Station-Station Excavation	Tractors/Loaders/Backhoes	2	8.5	Diesel
Wilshire Blvd (Metro D Line) Station-Station Excavation	Rough Terrain Forklifts	2	8.5	Diesel
Wilshire Blvd (Metro D Line) Station-Station Excavation	Aerial Lifts	2	8.5	Diesel
Wilshire Blvd (Metro D Line) Station-Station Construction	Cranes	2	8.5	Diesel
Wilshire Blvd (Metro D Line) Station-Station Construction	Pumps	3	8.5	Diesel
Wilshire Blvd (Metro D Line) Station-Station Construction	Rough Terrain Forklifts	2	8.5	Diesel
Wilshire Blvd (Metro D Line) Station-Station Construction	Aerial Lifts	3	8.5	Diesel
Wilshire Blvd (Metro D Line) Station-Station Construction	Air Compressors	2	8.5	Diesel
Wilshire Blvd (Metro D Line) Station-Station Construction	Welders	2	8.5	Diesel
Wilshire Blvd (Metro D Line) Station-Station Construction	Generator Sets	2	8.5	Diesel
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	Tractors/Loaders/Backhoes	2	8.5	Diesel
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	Skid Steer Loaders	1	8.5	Diesel
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	Pavers	2	8.5	Diesel
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	Surfacing Equipment	1	8.5	Diesel
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	Sweepers/Scrubbers	1	8.5	Diesel
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	Rollers	2	8.5	Diesel
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	Aerial Lifts	4	8.5	Diesel
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	Generator Sets	1	8.5	Diesel
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	Forklifts	2	8.5	Diesel
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	Air Compressors	2	8.5	Diesel
Santa Monica Blvd Station-Utility Relocation	Concrete/Industrial Saws	2	8.5	Diesel
Santa Monica Blvd Station-Utility Relocation	Cranes	1	8.5	Diesel
Santa Monica Blvd Station-Utility Relocation	Excavators	2	8.5	Diesel
Santa Monica Blvd Station-Utility Relocation	Rough Terrain Forklifts	2	8.5	Diesel
Santa Monica Blvd Station-Utility Relocation	Trenchers	1	8.5	Diesel
Santa Monica Blvd Station-Utility Relocation	Rollers	2	8.5	Diesel
Santa Monica Blvd Station-Utility Relocation	Cement and Mortar Mixers	1	8.5	Diesel
Santa Monica Blvd Station-Utility Relocation	Pavers	1	8.5	Diesel
Santa Monica Blvd Station-Utility Relocation	Surfacing Equipment	1	8.5	Diesel
Santa Monica Blvd Station-Utility Relocation	Sweepers/Scrubbers	1	8.5	Diesel
Santa Monica Blvd Station-Site Preparation/Demolition	Tractors/Loaders/Backhoes	4	8.5	Diesel
Santa Monica Blvd Station-Site Preparation/Demolition	Excavators	2	8.5	Diesel
Santa Monica Blvd Station-Site Preparation/Demolition	Concrete/Industrial Saws	2	8.5	Diesel
Santa Monica Blvd Station-Site Preparation/Demolition	Skid Steer Loaders	2	8.5	Diesel
Santa Monica Blvd Station-Grading	Crawler Tractors	2	8.5	Diesel
Santa Monica Blvd Station-Grading	Excavators	2	8.5	Diesel
Santa Monica Blvd Station-Drainage	Excavators	2	8.5	Diesel
Santa Monica Blvd Station-Drainage	Pumps	2	8.5	Diesel
Santa Monica Blvd Station-Drainage	Rollers	1	8.5	Diesel

Sepulveda Transit Corridor Project - ALTERNATIVE 6

Off-Road Equipment Fleet

Phase Name	Equipment Type	Quantity	Usage (Hrs/day)	Fuel Type
Santa Monica Blvd Station-SOE	Bore/Drill Rigs	2	8.5	Diesel
Santa Monica Blvd Station-SOE	Excavators	4	8.5	Diesel
Santa Monica Blvd Station-SOE	Rough Terrain Forklifts	2	8.5	Diesel
Santa Monica Blvd Station-SOE	Cranes	2	8.5	Diesel
Santa Monica Blvd Station-SOE	Pumps	2	8.5	Diesel
Santa Monica Blvd Station-Station Excavation	Cranes	2	8.5	Diesel
Santa Monica Blvd Station-Station Excavation	Excavators	6	8.5	Diesel
Santa Monica Blvd Station-Station Excavation	Tractors/Loaders/Backhoes	2	8.5	Diesel
Santa Monica Blvd Station-Station Excavation	Rough Terrain Forklifts	2	8.5	Diesel
Santa Monica Blvd Station-Station Excavation	Aerial Lifts	2	8.5	Diesel
Santa Monica Blvd Station-Station Construction	Cranes	2	8.5	Diesel
Santa Monica Blvd Station-Station Construction	Pumps	3	8.5	Diesel
Santa Monica Blvd Station-Station Construction	Rough Terrain Forklifts	2	8.5	Diesel
Santa Monica Blvd Station-Station Construction	Aerial Lifts	3	8.5	Diesel
Santa Monica Blvd Station-Station Construction	Air Compressors	2	8.5	Diesel
Santa Monica Blvd Station-Station Construction	Welders	2	8.5	Diesel
Santa Monica Blvd Station-Station Construction	Generator Sets	2	8.5	Diesel
Santa Monica Blvd Station-Final Roadway Construction	Tractors/Loaders/Backhoes	2	8.5	Diesel
Santa Monica Blvd Station-Final Roadway Construction	Skid Steer Loaders	1	8.5	Diesel
Santa Monica Blvd Station-Final Roadway Construction	Pavers	2	8.5	Diesel
Santa Monica Blvd Station-Final Roadway Construction	Surfacing Equipment	1	8.5	Diesel
Santa Monica Blvd Station-Final Roadway Construction	Sweepers/Scrubbers	1	8.5	Diesel
Santa Monica Blvd Station-Final Roadway Construction	Rollers	2	8.5	Diesel
Santa Monica Blvd Station-Station Finishes and Testing	Aerial Lifts	4	8.5	Diesel
Santa Monica Blvd Station-Station Finishes and Testing	Generator Sets	1	8.5	Diesel
Santa Monica Blvd Station-Station Finishes and Testing	Forklifts	2	8.5	Diesel
Santa Monica Blvd Station-Station Finishes and Testing	Air Compressors	2	8.5	Diesel
Metro E Line (Expo)/Bundy Station-Utility Relocation	Concrete/Industrial Saws	2	8.5	Diesel
Metro E Line (Expo)/Bundy Station-Utility Relocation	Cranes	1	8.5	Diesel
Metro E Line (Expo)/Bundy Station-Utility Relocation	Excavators	2	8.5	Diesel
Metro E Line (Expo)/Bundy Station-Utility Relocation	Rough Terrain Forklifts	2	8.5	Diesel
Metro E Line (Expo)/Bundy Station-Utility Relocation	Trenchers	1	8.5	Diesel
Metro E Line (Expo)/Bundy Station-Utility Relocation	Rollers	2	8.5	Diesel
Metro E Line (Expo)/Bundy Station-Utility Relocation	Cement and Mortar Mixers	1	8.5	Diesel
Metro E Line (Expo)/Bundy Station-Utility Relocation	Pavers	1	8.5	Diesel
Metro E Line (Expo)/Bundy Station-Utility Relocation	Surfacing Equipment	1	8.5	Diesel
Metro E Line (Expo)/Bundy Station-Utility Relocation	Sweepers/Scrubbers	1	8.5	Diesel
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	Tractors/Loaders/Backhoes	4	8.5	Diesel
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	Excavators	2	8.5	Diesel
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	Concrete/Industrial Saws	2	8.5	Diesel
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	Skid Steer Loaders	2	8.5	Diesel
Metro E Line (Expo)/Bundy Station-Grading	Crawler Tractors	2	8.5	Diesel
Metro E Line (Expo)/Bundy Station-Grading	Excavators	2	8.5	Diesel
Metro E Line (Expo)/Bundy Station-Drainage	Excavators	2	8.5	Diesel
Metro E Line (Expo)/Bundy Station-Drainage	Pumps	2	8.5	Diesel
Metro E Line (Expo)/Bundy Station-Drainage	Rollers	1	8.5	Diesel
Metro E Line (Expo)/Bundy Station-SOE	Bore/Drill Rigs	2	8.5	Diesel
Metro E Line (Expo)/Bundy Station-SOE	Excavators	4	8.5	Diesel
Metro E Line (Expo)/Bundy Station-SOE	Rough Terrain Forklifts	2	8.5	Diesel
Metro E Line (Expo)/Bundy Station-SOE	Cranes	2	8.5	Diesel
Metro E Line (Expo)/Bundy Station-SOE	Pumps	2	8.5	Diesel
Metro E Line (Expo)/Bundy Station-Station Excavation	Cranes	2	8.5	Diesel
Metro E Line (Expo)/Bundy Station-Station Excavation	Excavators	6	8.5	Diesel
Metro E Line (Expo)/Bundy Station-Station Excavation	Tractors/Loaders/Backhoes	2	8.5	Diesel
Metro E Line (Expo)/Bundy Station-Station Excavation	Rough Terrain Forklifts	2	8.5	Diesel
Metro E Line (Expo)/Bundy Station-Station Excavation	Aerial Lifts	2	8.5	Diesel

Sepulveda Transit Corridor Project - ALTERNATIVE 6

Off-Road Equipment Fleet

Phase Name	Equipment Type	Quantity	Usage (Hrs/day)	Fuel Type
Metro E Line (Expo)/Bundy Station-Station Construction	Cranes	2	8.5	Diesel
Metro E Line (Expo)/Bundy Station-Station Construction	Pumps	3	8.5	Diesel
Metro E Line (Expo)/Bundy Station-Station Construction	Rough Terrain Forklifts	2	8.5	Diesel
Metro E Line (Expo)/Bundy Station-Station Construction	Aerial Lifts	3	8.5	Diesel
Metro E Line (Expo)/Bundy Station-Station Construction	Air Compressors	2	8.5	Diesel
Metro E Line (Expo)/Bundy Station-Station Construction	Welders	2	8.5	Diesel
Metro E Line (Expo)/Bundy Station-Station Construction	Generator Sets	2	8.5	Diesel
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	Tractors/Loaders/Backhoes	2	8.5	Diesel
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	Skid Steer Loaders	1	8.5	Diesel
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	Pavers	2	8.5	Diesel
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	Surfacing Equipment	1	8.5	Diesel
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	Sweepers/Scrubbers	1	8.5	Diesel
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	Rollers	2	8.5	Diesel
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	Aerial Lifts	4	8.5	Diesel
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	Generator Sets	1	8.5	Diesel
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	Forklifts	2	8.5	Diesel
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	Air Compressors	2	8.5	Diesel
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolition	Tractors/Loaders/Backhoes	1	6.5	Diesel
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolition	Trenchers	1	6.5	Diesel
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolition	Rollers	1	6.5	Diesel
Vanowen St/Van Nuys Blvd TPSS-Foundation Construction	Pumps	1	6.5	Diesel
Vanowen St/Van Nuys Blvd TPSS-Foundation Construction	Skid Steer Loaders	1	6.5	Diesel
Vanowen St/Van Nuys Blvd TPSS-TPSS Installation	Cranes	1	6.5	Diesel
Magnolia TPSS-Site Preparation/Demolition	Tractors/Loaders/Backhoes	1	6.5	Diesel
Magnolia TPSS-Site Preparation/Demolition	Trenchers	1	6.5	Diesel
Magnolia TPSS-Site Preparation/Demolition	Rollers	1	6.5	Diesel
Magnolia TPSS-Foundation Construction	Pumps	1	6.5	Diesel
Magnolia TPSS-Foundation Construction	Skid Steer Loaders	1	6.5	Diesel
Magnolia TPSS-TPSS Installation	Cranes	1	6.5	Diesel
Mid Mountain Shaft TPSS-Site Preparation/Demolition	Tractors/Loaders/Backhoes	1	6.5	Diesel
Mid Mountain Shaft TPSS-Site Preparation/Demolition	Trenchers	1	6.5	Diesel
Mid Mountain Shaft TPSS-Site Preparation/Demolition	Rollers	1	6.5	Diesel
Mid Mountain Shaft TPSS-Foundation Construction	Pumps	1	6.5	Diesel
Mid Mountain Shaft TPSS-Foundation Construction	Skid Steer Loaders	1	6.5	Diesel
Mid Mountain Shaft TPSS-TPSS Installation	Cranes	1	6.5	Diesel
OMSF-Site Preparation/Demolition	Excavators	2	6.5	Diesel
OMSF-Site Preparation/Demolition	Cranes	1	6.5	Diesel
OMSF-Site Preparation/Demolition	Rough Terrain Forklifts	1	6.5	Diesel
OMSF-Site Preparation/Demolition	Rollers	1	6.5	Diesel
OMSF-Site Preparation/Demolition	Pumps	2	6.5	Diesel
OMSF-Grading	Excavators	2	6.5	Diesel
OMSF-Grading	Tractors/Loaders/Backhoes	2	6.5	Diesel
OMSF-Grading	Rollers	1	6.5	Diesel
OMSF-Building Construction	Cranes	2	6.5	Diesel
OMSF-Building Construction	Rough Terrain Forklifts	2	6.5	Diesel
OMSF-Building Construction	Aerial Lifts	6	6.5	Diesel
OMSF-Building Construction	Generator Sets	2	6.5	Diesel
OMSF-Building Construction	Air Compressors	4	6.5	Diesel
OMSF-Building Construction	Welders	4	6.5	Diesel
OMSF-Building Construction	Pumps	4	6.5	Diesel
OMSF-Building Construction	Skid Steer Loaders	2	6.5	Diesel
OMSF-Building Construction	Excavators	1	6.5	Diesel
OMSF-Building Construction	Tractors/Loaders/Backhoes	1	6.5	Diesel
OMSF-Pavements	Pavers	2	6.5	Diesel
OMSF-Pavements	Rollers	2	6.5	Diesel
OMSF-Pavements	Sweepers/Scrubbers	1	6.5	Diesel
OMSF-Pavements	Pumps	2	6.5	Diesel

Sepulveda Transit Corridor Project - ALTERNATIVE 6

Off-Road Equipment Fleet

Phase Name	Equipment Type	Quantity	Usage (Hrs/day)	Fuel Type
OMSF-Drainage/Utilties	Excavators	2	6.5	Diesel
OMSF-Drainage/Utilties	Rollers	1	6.5	Diesel
OMSF-Drainage/Utilties	Rough Terrain Forklifts	1	6.5	Diesel
Precast Yard-Concrete Activity	Cranes	2	8.5	Diesel
Precast Yard-Concrete Activity	Rough Terrain Forklifts	2	8.5	Diesel
Precast Yard-Concrete Activity	Tractors/Loaders/Backhoes	2	8.5	Diesel
Precast Yard-Concrete Activity	Welders	2	8.5	Diesel

Sepulveda Transit Corridor Project - ALTERNATIVE 6

DUST CONTROL MEASURES/ASSUMPTIONS

General Construction Assumptions	Value
Onsite Vehicle Speed (mph):	15
Onsite Trip Length (miles):	0.10
Number of Watering Events per Day:	3
General Worksite Dust Reduction (%)	74%

Dust Control Measures[1]

Activity Area	Control Measure	Control Efficiency (%)	Additional Notes
General Worksite	Apply water at various intervals to disturbed areas within construction site (**3.2-hour watering interval)**	61%	If using this reduction, account for 2 water trucks trips per day (4 one-way trips/2 onsite trips)
General Worksite	Apply water at various intervals to disturbed areas within construction site (**2.1-hour watering interval)**	74%	If using this reduction, account for 3 water trucks trips per day (6 one-way trips/3 onsite trips)
Unpaved Roads	Implement watering twice a day for industrial unpaved road.	55%	The analysis assumes water trucks used for general worksite would also water unpaved roads and provide water during demolition activities. The AQ analysis assumes 3 water trucks per day,
Demolition Activities	Apply water every 4 hours to the area within 100 feet of a structure being demolished, to reduce vehicle trackout.	36%	

Notes:

1. Western Regional Air Partnership (WRAP) Fugitive Dust Handbook. September 7, 2006. Prepared by Countess Environmental

Sepulveda Transit Corridor Project - ALTERNATIVE 6

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Emission Factor (g/bhp-hr)[3]												
															ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Westside-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Bore/Drill Rigs	Bore/Drill Rigs	2	17.0	83	0.50	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.33	0.02	0.00
Segment 1-Westside-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Pumps	Pumps	2	17.0	11	0.74	Diesel	Fleet Avg	0.56	4.24	2.97	0.01	-	0.17	0.17	-	0.15	0.15	568.32	0.02	0.00
Segment 1-Westside-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Cranes	Cranes	2	17.0	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Segment 1-Westside-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Aerial Lifts	Aerial Lifts	2	17.0	46	0.31	Diesel	Fleet Avg	0.15	2.85	3.07	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Segment 1-Westside-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Rough Terrain Forklifts	Rough Terrain Forklifts	2	17.0	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Segment 1-Westside-Tunnel Boring/Tunneling	9/1/2031	10/31/2032	6	366	20	2031	Tunnel Boring Machine (TBM)	Other Construction Equipment	2	17.0	82	0.42	Electric	--	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Tunnel Boring/Tunneling	9/1/2031	10/31/2032	6	366	20	2031	Cranes	Cranes	1	17.0	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Segment 1-Westside-Tunnel Boring/Tunneling	9/1/2031	10/31/2032	6	366	20	2031	Rough Terrain Forklifts	Rough Terrain Forklifts	2	17.0	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Segment 1-Westside-TBM Retrieval/Tunnel Prep	11/1/2032	4/30/2033	6	156	20	2032	Cranes	Cranes	2	17.0	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Segment 1-Westside-TBM Retrieval/Tunnel Prep	11/1/2032	4/30/2033	6	156	20	2032	Aerial Lifts	Aerial Lifts	2	17.0	46	0.31	Diesel	Fleet Avg	0.15	2.85	3.06	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Segment 1-Westside-Annular Grouting	9/1/2031	10/31/2032	6	366	20	2031	Bore/Drill Rigs	Bore/Drill Rigs	2	17.0	83	0.50	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.33	0.02	0.00
Segment 1-Westside-Annular Grouting	9/1/2031	10/31/2032	6	366	20	2031	Pumps	Pumps	2	17.0	11	0.74	Diesel	Fleet Avg	0.56	4.24	2.97	0.01	-	0.17	0.17	-	0.15	0.15	568.32	0.02	0.00
Segment 1-Westside-Invert Construction	4/1/2034	7/31/2034	6	104	20	2034	Pumps	Pumps	2	17.0	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.34	0.02	0.00
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	2033	Excavators	Excavators	2	17.0	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	2033	Pumps	Pumps	2	17.0	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	2033	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	17.0	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	2033	Air Compressors	Air Compressors	2	17.0	37	0.48	Diesel	Fleet Avg	0.39	3.25	4.68	0.01	-	0.03	0.03	-	0.03	0.03	568.34	0.02	0.00
Segment 1-Westside-Rail and Plinth	8/1/2034	1/31/2035	6	158	20	2034	Pumps	Pumps	1	17.0	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.34	0.02	0.00
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Aerial Lifts	Aerial Lifts	8	17.0	46	0.31	Diesel	Fleet Avg	0.14	2.84	3.05	0.01	-	0.02	0.02	-	0.01	0.01	586.90	0.02	0.00
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Rough Terrain Forklifts	Rough Terrain Forklifts	2	17.0	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Generator Sets	Generator Sets	1	17.0	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.32	0.02	0.00
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Aerial Lifts	Aerial Lifts	4	17.0	46	0.31	Diesel	Fleet Avg	0.14	2.84	3.05	0.01	-	0.02	0.02	-	0.01	0.01	586.90	0.02	0.00
Segment 2-Mountain-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Bore/Drill Rigs	Bore/Drill Rigs	2	17.0	83	0.50	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.33	0.02	0.00
Segment 2-Mountain-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Pumps	Pumps	2	17.0	11	0.74	Diesel	Fleet Avg	0.56	4.24	2.97	0.01	-	0.17	0.17	-	0.15	0.15	568.32	0.02	0.00
Segment 2-Mountain-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Cranes	Cranes	2	17.0	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Segment 2-Mountain-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Aerial Lifts	Aerial Lifts	2	17.0	46	0.31	Diesel	Fleet Avg	0.15	2.85	3.07	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Segment 2-Mountain-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Rough Terrain Forklifts	Rough Terrain Forklifts	2	17.0	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Segment 2-Mountain-Tunnel Boring/Tunneling	9/1/2031	1/31/2034	6	758	20	2031	Tunnel Boring Machine (TBM)	Other Construction Equipment	2	17.0	82	0.42	Electric	--	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Tunnel Boring/Tunneling	9/1/2031	1/31/2034	6	758	20	2031	Cranes	Cranes	1	17.0	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Segment 2-Mountain-Tunnel Boring/Tunneling	9/1/2031	1/31/2034	6	758	20	2031	Rough Terrain Forklifts	Rough Terrain Forklifts	2	17.0	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Segment 2-Mountain-TBM Retrieval/Tunnel Prep	2/1/2034	7/31/2034	6	155	20	2034	Cranes	Cranes	2	17.0	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Segment 2-Mountain-TBM Retrieval/Tunnel Prep	2/1/2034	7/31/2034	6	155	20	2034	Aerial Lifts	Aerial Lifts	2	17.0	46	0.31	Diesel	Fleet Avg	0.14	2.85	3.06	0.01	-	0.02	0.02	-	0.01	0.01	586.90	0.02	0.00
Segment 2-Mountain-Annular Grouting	9/1/2031	1/31/2034	6	758	20	2031	Bore/Drill Rigs	Bore/Drill Rigs	2	17.0	83	0.50	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.33	0.02	0.00
Segment 2-Mountain-Annular Grouting	9/1/2031	1/31/2034	6	758	20	2031	Pumps	Pumps	2	17.0	11	0.74	Diesel	Fleet Avg	0.56	4.24	2.97	0.01	-	0.17	0.17	-	0.15	0.15	568.32	0.02	0.00
Segment 2-Mountain-Invert Construction	5/1/2035	2/28/2037	6	575	20	2035	Pumps	Pumps	2	17.0	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.33	0.02	0.00
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	2034	Excavators	Excavators	2	17.0	36	0.38	Diesel	Fleet Avg	0.27	3.24	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	2034	Pumps	Pumps	2	17.0	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.34	0.02	0.00
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	2034	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	17.0	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	2034	Air Compressors	Air Compressors	2	17.0	37	0.48	Diesel	Fleet Avg	0.39	3.23	4.68	0.01	-	0.03	0.03	-	0.02	0.02	568.40	0.02	0.00
Segment 2-Mountain-Rail and Plinth	4/1/2036	3/31/2037	6	313	20	2036	Pumps	Pumps	1	17.0	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.32	0.02	0.00
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	2036	Aerial Lifts	Aerial Lifts	8	17.0	46	0.31	Diesel	Fleet Avg	0.14	2.84	3.05	0.01	-	0.01	0.01	-	0.01	0.01	586.90	0.02	0.00
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	2036	Rough Terrain Forklifts	Rough Terrain Forklifts	2	17.0	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	2036	Generator Sets	Generator Sets	1	17.0	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.32	0.02	0.00
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	2036	Aerial Lifts	Aerial Lifts	4	17.0	46	0.31	Diesel	Fleet Avg	0.14	2.84	3.05	0.01	-	0.01	0.01	-	0.01	0.01	586.90	0.02	0.00
Segment 3-Valley-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Bore/Drill Rigs	Bore/Drill Rigs	2	17.0	83	0.50	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.33	0.02	0.00
Segment 3-Valley-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Pumps	Pumps	2	17.0	11	0.74	Diesel	Fleet Avg	0.56	4.24	2.97	0.01	-	0.17	0.17	-	0.15	0.15	568.32	0.02	0.00
Segment 3-Valley-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Cranes	Cranes	2	17.0	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Segment 3-Valley-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Aerial Lifts	Aerial Lifts	2	17.0	46	0.31	Diesel	Fleet Avg	0.15	2.85	3.07	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Segment 3-Valley-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Rough Terrain Forklifts	Rough Terrain Forklifts	2	17.0	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Segment 3-Valley-Tunnel Boring/Tunneling	9/1/2031	8/31/2032	6	314	20	2031	Tunnel Boring Machine (TBM)	Other Construction Equipment	2	17.0	82	0.42	Electric	--	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	526.88	0.02	0.00
Segment 3-Valley-Tunnel Boring/Tunneling	9/1/2031	8/31/2032	6	314	20	2031	Cranes	Cranes	1	17.0	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Segment 3-Valley-Tunnel Boring/Tunneling	9/1/2031	8/31/2032	6	314	20	2031	Rough Terrain Forklifts	Rough Terrain Forklifts	2	17.0	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Segment 3-Valley-TBM Retrieval/Tunnel Prep	9/1/2032	2/28/2033	6	155	20	2032	Cranes	Cranes	2	17.0	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Segment 3-Valley-TBM Retrieval/Tunnel Prep	9/1/2032	2/28/2033	6	155	20	2032	Aerial Lifts	Aerial Lifts	2	17.0	46	0.31	Diesel	Fleet Avg	0.15	2.85	3.06	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Segment 3-Valley-Annular Grouting	9/1/2031	8/31/2032	6	314	20	2031	Bore/Drill Rigs	Bore/Drill Rigs	2	17.0	83	0.50	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.33	0.02	0.00
Segment 3-Valley-Annular Grouting	9/1/2031	8/31/2032	6	314	20	2031	Pumps	Pumps	2	17.0	11	0.74	Diesel	Fleet Avg	0.56	4.24	2.97	0.01	-	0.17	0.17	-	0.15	0.15	568.32	0.02	0.00
Segment 3-Valley-Invert Construction	4/1/2034	5/31/2035	6	365	20	2034	Pumps	Pumps	2	17.0	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.34	0.02	0.00
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	2032	Excavators	Excavators	2	17.0	36	0.38	Diesel	Fleet Avg	0.29	3.27	4.15	0.01	-	0.05	0.05	-	0.05	0.05	588.07	0.02	0.00
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	2032	Pumps	Pumps	2	17.0	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.33	0.02	0.00
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	2032	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	17.0	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	2032	Air Compressors	Air Compressors	2	17.0	37	0.48	Diesel	Fleet Avg	0.40	3.28	4.69	0.01	-	0.03	0.03	-	0.03	0.03	568.28	0.02	0.00
Segment 3-Valley-Rail and Plinth	8/1/2034	9/30/2035	6	365	20	2034	Pumps	Pumps	1	17.0	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.34	0.02	0.00
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Aerial Lifts	Aerial Lifts	8	17.0	46	0.31	Diesel	Fleet Avg	0.14	2.84	3.05	0.01	-	0.02	0.02	-	0.01	0.01	586.90	0.02	0.00
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Rough Terrain Forklifts	Rough Terrain Forklifts	2	17.0	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Generator Sets	Generator Sets	1	17.0	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.32	0.02	0.00
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Aerial Lifts	Aerial Lifts	4	17.0	46	0.31	Diesel	Fleet Avg	0.14	2.84	3.05	0.01	-	0.02	0.02	-	0.01	0.01	586.90	0.02	0.00
Mid Mountain Shaft-Site Preparation/Demolition	11/1/2031	12/31/2031	6	52	10	2031	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Mid Mountain Shaft-Site Preparation/Demolition	11/1/2031	12/31/2031	6	52	10	2031	Excavators	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.31	3.28	4.17	0.01	-	0.06	0.06	-	0.05	0.05	588.07	0.02	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 6

OFFROAD EQUIPMENT (ONSITE)[1]

															Daily Emissions (lb/day)													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Westside-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Bore/Drill Rigs	Bore/Drill Rigs	2	17.0	83	0.50	Diesel	Tier 4 Final	0.16	0.81	11.51	0.02	-	0.03	0.03	-	0.03	0.03	1627.9	0.07	0.01
Segment 1-Westside-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Pumps	Pumps	2	17.0	11	0.74	Diesel	Fleet Avg	0.34	2.59	1.81	0.00	-	0.10	0.10	-	0.09	0.09	346.8	0.01	0.00
Segment 1-Westside-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Cranes	Cranes	2	17.0	367	0.29	Diesel	Tier 4 Final	0.40	2.07	20.74	0.04	-	0.08	0.08	-	0.08	0.08	4209.1	0.17	0.03
Segment 1-Westside-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Aerial Lifts	Aerial Lifts	2	17.0	46	0.31	Diesel	Fleet Avg	0.16	3.05	3.28	0.01	-	0.02	0.02	-	0.02	0.02	627.3	0.03	0.01
Segment 1-Westside-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Rough Terrain Forklifts	Rough Terrain Forklifts	2	17.0	96	0.40	Diesel	Tier 4 Final	0.14	0.75	10.65	0.01	-	0.03	0.03	-	0.03	0.03	1521.9	0.06	0.01
Segment 1-Westside-Tunnel Boring/Tunneling	9/1/2031	10/31/2032	6	366	20	2031	Tunnel Boring Machine (TBM)	Other Construction Equipment	2	17.0	82	0.42	Electric	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Tunnel Boring/Tunneling	9/1/2031	10/31/2032	6	366	20	2031	Cranes	Cranes	1	17.0	367	0.29	Diesel	Tier 4 Final	0.20	1.04	10.37	0.02	-	0.04	0.04	-	0.04	0.04	2104.6	0.09	0.02
Segment 1-Westside-Tunnel Boring/Tunneling	9/1/2031	10/31/2032	6	366	20	2031	Rough Terrain Forklifts	Rough Terrain Forklifts	2	17.0	96	0.40	Diesel	Tier 4 Final	0.14	0.75	10.65	0.01	-	0.03	0.03	-	0.03	0.03	1521.9	0.06	0.01
Segment 1-Westside-TBM Retrieval/Tunnel Prep	11/1/2032	4/30/2033	6	156	20	2032	Cranes	Cranes	2	17.0	367	0.29	Diesel	Tier 4 Final	0.40	2.07	20.74	0.04	-	0.08	0.08	-	0.08	0.08	4209.1	0.17	0.03
Segment 1-Westside-TBM Retrieval/Tunnel Prep	11/1/2032	4/30/2033	6	156	20	2032	Aerial Lifts	Aerial Lifts	2	17.0	46	0.31	Diesel	Fleet Avg	0.16	3.05	3.28	0.01	-	0.02	0.02	-	0.02	0.02	627.3	0.03	0.01
Segment 1-Westside-Annular Grouting	9/1/2031	10/31/2032	6	366	20	2031	Bore/Drill Rigs	Bore/Drill Rigs	2	17.0	83	0.50	Diesel	Tier 4 Final	0.16	0.81	11.51	0.02	-	0.03	0.03	-	0.03	0.03	1627.9	0.07	0.01
Segment 1-Westside-Annular Grouting	9/1/2031	10/31/2032	6	366	20	2031	Pumps	Pumps	2	17.0	11	0.74	Diesel	Fleet Avg	0.34	2.59	1.81	0.00	-	0.10	0.10	-	0.09	0.09	346.8	0.01	0.00
Segment 1-Westside-Invert Construction	4/1/2034	7/31/2034	6	104	20	2034	Pumps	Pumps	2	17.0	11	0.74	Diesel	Fleet Avg	0.34	2.58	1.81	0.00	-	0.10	0.10	-	0.09	0.09	346.8	0.01	0.00
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	2033	Excavators	Excavators	2	17.0	36	0.38	Diesel	Fleet Avg	0.29	3.35	4.24	0.01	-	0.04	0.04	-	0.04	0.04	603.0	0.02	0.00
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	2033	Pumps	Pumps	2	17.0	11	0.74	Diesel	Fleet Avg	0.34	2.58	1.81	0.00	-	0.10	0.10	-	0.09	0.09	346.8	0.01	0.00
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	2033	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	17.0	84	0.37	Diesel	Tier 4 Final	0.12	0.61	8.62	0.01	-	0.02	0.02	-	0.02	0.02	1233.0	0.05	0.01
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	2033	Air Compressors	Air Compressors	2	17.0	37	0.48	Diesel	Fleet Avg	0.52	4.33	6.23	0.01	-	0.04	0.04	-	0.04	0.04	756.6	0.03	0.01
Segment 1-Westside-Rail and Plinth	8/1/2034	1/31/2035	6	158	20	2034	Pumps	Pumps	1	17.0	11	0.74	Diesel	Fleet Avg	0.17	1.29	0.91	0.00	-	0.05	0.05	-	0.05	0.05	173.4	0.01	0.00
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Aerial Lifts	Aerial Lifts	8	17.0	46	0.31	Diesel	Fleet Avg	0.59	12.16	13.06	0.02	-	0.06	0.06	-	0.06	0.06	2509.3	0.10	0.02
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Rough Terrain Forklifts	Rough Terrain Forklifts	2	17.0	96	0.40	Diesel	Tier 4 Final	0.14	0.75	10.65	0.01	-	0.03	0.03	-	0.03	0.03	1521.9	0.06	0.01
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Generator Sets	Generator Sets	1	17.0	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Aerial Lifts	Aerial Lifts	4	17.0	46	0.31	Diesel	Fleet Avg	0.29	6.08	6.53	0.01	-	0.03	0.03	-	0.03	0.03	1254.7	0.05	0.01
Segment 2-Mountain-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Bore/Drill Rigs	Bore/Drill Rigs	2	17.0	83	0.50	Diesel	Tier 4 Final	0.16	0.81	11.51	0.02	-	0.03	0.03	-	0.03	0.03	1627.9	0.07	0.01
Segment 2-Mountain-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Pumps	Pumps	2	17.0	11	0.74	Diesel	Fleet Avg	0.34	2.59	1.81	0.00	-	0.10	0.10	-	0.09	0.09	346.8	0.01	0.00
Segment 2-Mountain-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Cranes	Cranes	2	17.0	367	0.29	Diesel	Tier 4 Final	0.40	2.07	20.74	0.04	-	0.08	0.08	-	0.08	0.08	4209.1	0.17	0.03
Segment 2-Mountain-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Aerial Lifts	Aerial Lifts	2	17.0	46	0.31	Diesel	Fleet Avg	0.16	3.05	3.28	0.01	-	0.02	0.02	-	0.02	0.02	627.3	0.03	0.01
Segment 2-Mountain-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Rough Terrain Forklifts	Rough Terrain Forklifts	2	17.0	96	0.40	Diesel	Tier 4 Final	0.14	0.75	10.65	0.01	-	0.03	0.03	-	0.03	0.03	1521.9	0.06	0.01
Segment 2-Mountain-Tunnel Boring/Tunneling	9/1/2031	1/31/2034	6	758	20	2031	Tunnel Boring Machine (TBM)	Other Construction Equipment	2	17.0	82	0.42	Electric	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Tunnel Boring/Tunneling	9/1/2031	1/31/2034	6	758	20	2031	Cranes	Cranes	1	17.0	367	0.29	Diesel	Tier 4 Final	0.20	1.04	10.37	0.02	-	0.04	0.04	-	0.04	0.04	2104.6	0.09	0.02
Segment 2-Mountain-Tunnel Boring/Tunneling	9/1/2031	1/31/2034	6	758	20	2031	Rough Terrain Forklifts	Rough Terrain Forklifts	2	17.0	96	0.40	Diesel	Tier 4 Final	0.14	0.75	10.65	0.01	-	0.03	0.03	-	0.03	0.03	1521.9	0.06	0.01
Segment 2-Mountain-TBM Retrieval/Tunnel Prep	2/1/2034	7/31/2034	6	155	20	2034	Cranes	Cranes	2	17.0	367	0.29	Diesel	Tier 4 Final	0.40	2.07	20.74	0.04	-	0.08	0.08	-	0.08	0.08	4209.1	0.17	0.03
Segment 2-Mountain-TBM Retrieval/Tunnel Prep	2/1/2034	7/31/2034	6	155	20	2034	Aerial Lifts	Aerial Lifts	2	17.0	46	0.31	Diesel	Fleet Avg	0.15	3.04	3.27	0.01	-	0.02	0.02	-	0.02	0.02	627.3	0.03	0.01
Segment 2-Mountain-Annular Grouting	9/1/2031	1/31/2034	6	758	20	2031	Bore/Drill Rigs	Bore/Drill Rigs	2	17.0	83	0.50	Diesel	Tier 4 Final	0.16	0.81	11.51	0.02	-	0.03	0.03	-	0.03	0.03	1627.9	0.07	0.01
Segment 2-Mountain-Annular Grouting	9/1/2031	1/31/2034	6	758	20	2031	Pumps	Pumps	2	17.0	11	0.74	Diesel	Fleet Avg	0.34	2.59	1.81	0.00	-	0.10	0.10	-	0.09	0.09	346.8	0.01	0.00
Segment 2-Mountain-Invert Construction	5/1/2035	2/28/2037	6	575	20	2035	Pumps	Pumps	2	17.0	11	0.74	Diesel	Fleet Avg	0.34	2.58	1.81	0.00	-	0.10	0.10	-	0.09	0.09	346.8	0.01	0.00
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	2034	Excavators	Excavators	2	17.0	36	0.38	Diesel	Fleet Avg	0.28	3.32	4.23	0.01	-	0.04	0.04	-	0.04	0.04	603.0	0.02	0.00
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	2034	Pumps	Pumps	2	17.0	11	0.74	Diesel	Fleet Avg	0.34	2.58	1.81	0.00	-	0.10	0.10	-	0.09	0.09	346.8	0.01	0.00
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	2034	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	17.0	84	0.37	Diesel	Tier 4 Final	0.12	0.61	8.62	0.01	-	0.02	0.02	-	0.02	0.02	1233.0	0.05	0.01
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	2034	Air Compressors	Air Compressors	2	17.0	37	0.48	Diesel	Fleet Avg	0.51	4.30	6.23	0.01	-	0.04	0.04	-	0.03	0.03	756.7	0.03	0.01
Segment 2-Mountain-Rail and Plinth	4/1/2036	3/31/2037	6	313	20	2036	Pumps	Pumps	1	17.0	11	0.74	Diesel	Fleet Avg	0.17	1.29	0.91	0.00	-	0.05	0.05	-	0.05	0.05	173.4	0.01	0.00
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	2036	Aerial Lifts	Aerial Lifts	8	17.0	46	0.31	Diesel	Fleet Avg	0.58	12.15	13.05	0.02	-	0.06	0.06	-	0.06	0.06	2509.3	0.10	0.02
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	2036	Rough Terrain Forklifts	Rough Terrain Forklifts	2	17.0	96	0.40	Diesel	Tier 4 Final	0.14	0.75	10.65	0.01	-	0.03	0.03	-	0.03	0.03	1521.9	0.06	0.01
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	2036	Generator Sets	Generator Sets	1	17.0	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	2036	Aerial Lifts	Aerial Lifts	4	17.0	46	0.31	Diesel	Fleet Avg	0.29	6.07	6.53	0.01	-	0.03	0.03	-	0.03	0.03	1254.7	0.05	0.01
Segment 3-Valley-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Bore/Drill Rigs	Bore/Drill Rigs	2	17.0	83	0.50	Diesel	Tier 4 Final	0.16	0.81	11.51	0.02	-	0.03	0.03	-	0.03	0.03	1627.9	0.07	0.01
Segment 3-Valley-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Pumps	Pumps	2	17.0	11	0.74	Diesel	Fleet Avg	0.34	2.59	1.81	0.00	-	0.10	0.10	-	0.09	0.09	346.8	0.01	0.00
Segment 3-Valley-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Cranes	Cranes	2	17.0	367	0.29	Diesel	Tier 4 Final	0.40	2.07	20.74	0.04	-	0.08	0.08	-	0.08	0.08	4209.1	0.17	0.03
Segment 3-Valley-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Aerial Lifts	Aerial Lifts	2	17.0	46	0.31	Diesel	Fleet Avg	0.16	3.05	3.28	0.01	-	0.02	0.02	-	0.02	0.02	627.3	0.03	0.01
Segment 3-Valley-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Rough Terrain Forklifts	Rough Terrain Forklifts	2	17.0	96	0.40	Diesel	Tier 4 Final	0.14	0.75	10.65	0.01	-	0.03	0.03	-	0.03	0.03	1521.9	0.06	0.01
Segment 3-Valley-Tunnel Boring/Tunneling	9/1/2031	8/31/2032	6	314	20	2031	Tunnel Boring Machine (TBM)	Other Construction Equipment	2	17.0	82	0.42	Electric	--	0.13	0.67	9.55	0.01	-	0.03	0.03	-	0.03	0.03	1360.2	0.06	0.01
Segment 3-Valley-Tunnel Boring/Tunneling	9/1/2031	8/31/2032	6	314	20	2031	Cranes	Cranes	1	17.0	367	0.29	Diesel	Tier 4 Final	0.20	1.04	10.37	0.02	-	0.04	0.04	-	0.04	0.04	2104.6	0.09	0.02
Segment 3-Valley-Tunnel Boring/Tunneling	9/1/2031	8/31/2032	6	314	20	2031	Rough Terrain Forklifts	Rough Terrain Forklifts	2	17.0	96	0.40	Diesel	Tier 4 Final	0.14	0.75	10.65	0.01	-	0.03	0.03	-	0.03	0.03	1521.9	0.06	0.01
Segment 3-Valley-TBM Retrieval/Tunnel Prep	9/1/2032	2/28/2033	6	155	20	2032	Cranes	Cranes	2	17.0	367	0.29	Diesel	Tier 4 Final	0.40	2.07	20.74	0.04	-	0.08	0.08	-	0.08	0.08	4209.1	0.17	0.03
Segment 3-Valley-TBM Retrieval/Tunnel Prep	9/1/2032	2/28/2033	6	155	20	2032	Aerial Lifts	Aerial Lifts	2	17.0	46	0.31	Diesel	Fleet Avg	0.16	3.05	3.28	0.01	-	0.02	0.02	-	0.02	0.02	627.3	0.03	0.01
Segment 3-Valley-Annular Grouting	9/1/2031	8/31/2032	6	314	20	2031	Bore/Drill Rigs	Bore/Drill Rigs	2	17.0	83	0.50	Diesel	Tier 4 Final	0.16	0.81	11.51	0.02	-	0.03	0.03	-	0.03	0.03	1627.9	0.07	0.01
Segment 3-Valley-Annular Grouting	9/1/2031	8/31/2032	6	314	20	2031	Pumps	Pumps	2	17.0	11	0.74	Diesel	Fleet Avg	0.34	2.59	1.81	0.00	-	0.10	0.10	-	0.09	0.09	346.8	0.01	0.00
Segment 3-Valley-Invert Construction	4/1/2034	5/31/2035	6	365	20	2034	Pumps	Pumps	2	17.0	11	0.74	Diesel	Fleet Avg	0.34	2.58	1.81	0.00	-	0.10	0.10	-	0.09	0.09	346.8	0.01	0.00
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	2032	Excavators	Excavators	2	17.0	36	0.38	Diesel	Fleet Avg	0.30	3.35	4.25	0.01	-	0.05	0.05	-	0.05	0.05	603.0	0.02	0.00
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	2032	Pumps	Pumps	2	17.0	11	0.74	Diesel	Fleet Avg	0.34	2.58	1.81	0.00	-	0.10	0.10	-	0.09	0.09	346.8	0.01	0.00
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	2032	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	17.0	84	0.37	Diesel	Tier 4 Final	0.12	0.61	8.62	0.01	-	0.02	0.02	-	0.02	0.02	1233.0	0.05	0.01
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	2032	Air Compressors	Air Compressors	2	17.0	37	0.48	Diesel	Fleet Avg	0.53	4.36	6.24	0.01	-	0.05	0.05	-	0.04	0.04	756.5	0.03	0.01
Segment 3-Valley-Rail and Plinth	8/1/2034	9/30/2035	6	365	20	2034	Pumps	Pumps	1	17.0	11	0.74	Diesel	Fleet Avg	0.17	1.29	0.91	0.00	-	0.05	0.05	-	0.05	0.05	173.4	0.01	0.00
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Aerial Lifts	Aerial Lifts	8	17.0	46	0.31	Diesel	Fleet Avg	0.59	12.16	13.06	0.02	-	0.06	0.06	-	0.06	0.06	2509.3	0.10	0.02
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Rough Terrain Forklifts	Rough Terrain Forklifts	2	17.0	96	0.40	Diesel	Tier 4 Final	0.14	0.75	10.65	0.01	-	0.03	0.03	-	0.03	0.03	1521.9	0.06	0.01
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Generator Sets	Generator Sets	1	17.0	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Aerial Lifts	Aerial Lifts	4	17.0	46	0.31	Diesel	Fleet Avg	0.29	6.08	6.53	0.01	-	0.03	0.03	-	0.03	0.03	1254.7	0.05	0.01
Mid Mountain Shaft-Site Preparation/Demolition	11/1/2031	12/31/2031	6	52	10	2031	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.06	0.30	4.31	0.01	-	0.01	0.01	-	0.01	0.01	616.5	0.03	0.01
Mid Mountain Shaft-Site Preparation/Demolition	11/1/2031	12/31/2031	6	52	10	2031	Excavators	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.08	0.84	1.07	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 6

OFFROAD EQUIPMENT (ONSITE)[1]

																Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Segment 1-Westside-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Bore/Drill Rigs	Bore/Drill Rigs	2	17.0	83	0.50	Diesel	Tier 4 Final	0.01	0.04	0.60	0.00	-	0.00	0.00	-	0.00	0.00	77.53	0.00	0.00	77.8
Segment 1-Westside-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Pumps	Pumps	2	17.0	11	0.74	Diesel	Fleet Avg	0.02	0.14	0.10	0.00	-	0.01	0.01	-	0.00	0.00	16.5	0.00	0.00	16.6
Segment 1-Westside-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Cranes	Cranes	2	17.0	367	0.29	Diesel	Tier 4 Final	0.02	0.11	1.09	0.00	-	0.00	0.00	-	0.00	0.00	200.5	0.01	0.00	201.2
Segment 1-Westside-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Aerial Lifts	Aerial Lifts	2	17.0	46	0.31	Diesel	Fleet Avg	0.01	0.16	0.17	0.00	-	0.00	0.00	-	0.00	0.00	29.9	0.00	0.00	30.0
Segment 1-Westside-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Rough Terrain Forklifts	Rough Terrain Forklifts	2	17.0	96	0.40	Diesel	Tier 4 Final	0.01	0.04	0.56	0.00	-	0.00	0.00	-	0.00	0.00	72.5	0.00	0.00	72.7
Segment 1-Westside-Tunnel Boring/Tunneling	9/1/2031	10/31/2032	6	366	20	2031	Tunnel Boring Machine (TBM)	Other Construction Equipment	2	17.0	82	0.42	Electric	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Tunnel Boring/Tunneling	9/1/2031	10/31/2032	6	366	20	2031	Cranes	Cranes	1	17.0	367	0.29	Diesel	Tier 4 Final	0.04	0.19	1.90	0.00	-	0.01	0.01	-	0.01	0.01	349.4	0.01	0.00	350.6
Segment 1-Westside-Tunnel Boring/Tunneling	9/1/2031	10/31/2032	6	366	20	2031	Rough Terrain Forklifts	Rough Terrain Forklifts	2	17.0	96	0.40	Diesel	Tier 4 Final	0.03	0.14	1.95	0.00	-	0.01	0.01	-	0.01	0.01	252.7	0.01	0.00	253.5
Segment 1-Westside-TBM Retrieval/Tunnel Prep	11/1/2032	4/30/2033	6	156	20	2032	Cranes	Cranes	2	17.0	367	0.29	Diesel	Tier 4 Final	0.03	0.16	1.62	0.00	-	0.01	0.01	-	0.01	0.01	297.8	0.01	0.00	298.9
Segment 1-Westside-TBM Retrieval/Tunnel Prep	11/1/2032	4/30/2033	6	156	20	2032	Aerial Lifts	Aerial Lifts	2	17.0	46	0.31	Diesel	Fleet Avg	0.01	0.24	0.26	0.00	-	0.00	0.00	-	0.00	0.00	44.4	0.00	0.00	44.5
Segment 1-Westside-Annular Grouting	9/1/2031	10/31/2032	6	366	20	2031	Bore/Drill Rigs	Bore/Drill Rigs	2	17.0	83	0.50	Diesel	Tier 4 Final	0.03	0.15	2.11	0.00	-	0.01	0.01	-	0.01	0.01	270.3	0.01	0.00	271.2
Segment 1-Westside-Annular Grouting	9/1/2031	10/31/2032	6	366	20	2031	Pumps	Pumps	2	17.0	11	0.74	Diesel	Fleet Avg	0.06	0.47	0.33	0.00	-	0.02	0.02	-	0.02	0.02	57.6	0.00	0.00	57.8
Segment 1-Westside-Invert Construction	4/1/2034	7/31/2034	6	104	20	2034	Pumps	Pumps	2	17.0	11	0.74	Diesel	Fleet Avg	0.02	0.13	0.09	0.00	-	0.01	0.01	-	0.00	0.00	16.4	0.00	0.00	16.4
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	2033	Excavators	Excavators	2	17.0	36	0.38	Diesel	Fleet Avg	0.04	0.52	0.66	0.00	-	0.01	0.01	-	0.01	0.01	85.3	0.00	0.00	85.6
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	2033	Pumps	Pumps	2	17.0	11	0.74	Diesel	Fleet Avg	0.05	0.40	0.28	0.00	-	0.02	0.02	-	0.01	0.01	49.1	0.00	0.00	49.2
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	2033	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	17.0	84	0.37	Diesel	Tier 4 Final	0.02	0.09	1.34	0.00	-	0.00	0.00	-	0.00	0.00	174.5	0.01	0.00	175.1
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	2033	Air Compressors	Air Compressors	2	17.0	37	0.48	Diesel	Fleet Avg	0.08	0.68	0.97	0.00	-	0.01	0.01	-	0.01	0.01	107.1	0.00	0.00	107.4
Segment 1-Westside-Rail and Plinth	8/1/2034	1/31/2035	6	158	20	2034	Pumps	Pumps	1	17.0	11	0.74	Diesel	Fleet Avg	0.01	0.10	0.07	0.00	-	0.00	0.00	-	0.00	0.00	12.4	0.00	0.00	12.5
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Aerial Lifts	Aerial Lifts	8	17.0	46	0.31	Diesel	Fleet Avg	0.09	1.90	2.04	0.00	-	0.01	0.01	-	0.01	0.01	356.3	0.01	0.00	357.5
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Rough Terrain Forklifts	Rough Terrain Forklifts	2	17.0	96	0.40	Diesel	Tier 4 Final	0.02	0.12	1.67	0.00	-	0.00	0.00	-	0.00	0.00	216.1	0.01	0.00	216.8
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Generator Sets	Generator Sets	1	17.0	14	0.74	Diesel	Fleet Avg	0.03	0.26	0.17	0.00	-	0.01	0.01	-	0.01	0.01	31.3	0.00	0.00	31.4
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Aerial Lifts	Aerial Lifts	4	17.0	46	0.31	Diesel	Fleet Avg	0.05	0.95	1.02	0.00	-	0.01	0.01	-	0.00	0.00	178.1	0.01	0.00	178.7
Segment 2-Mountain-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Bore/Drill Rigs	Bore/Drill Rigs	2	17.0	83	0.50	Diesel	Tier 4 Final	0.01	0.04	0.60	0.00	-	0.00	0.00	-	0.00	0.00	77.5	0.00	0.00	77.8
Segment 2-Mountain-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Pumps	Pumps	2	17.0	11	0.74	Diesel	Fleet Avg	0.02	0.14	0.10	0.00	-	0.01	0.01	-	0.00	0.00	16.5	0.00	0.00	16.6
Segment 2-Mountain-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Cranes	Cranes	2	17.0	367	0.29	Diesel	Tier 4 Final	0.02	0.11	1.09	0.00	-	0.00	0.00	-	0.00	0.00	200.5	0.01	0.00	201.2
Segment 2-Mountain-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Aerial Lifts	Aerial Lifts	2	17.0	46	0.31	Diesel	Fleet Avg	0.01	0.16	0.17	0.00	-	0.00	0.00	-	0.00	0.00	29.9	0.00	0.00	30.0
Segment 2-Mountain-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Rough Terrain Forklifts	Rough Terrain Forklifts	2	17.0	96	0.40	Diesel	Tier 4 Final	0.01	0.04	0.56	0.00	-	0.00	0.00	-	0.00	0.00	72.5	0.00	0.00	72.7
Segment 2-Mountain-Tunnel Boring/Tunneling	9/1/2031	1/31/2034	6	758	20	2031	Tunnel Boring Machine (TBM)	Other Construction Equipment	2	17.0	82	0.42	Electric	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Tunnel Boring/Tunneling	9/1/2031	1/31/2034	6	758	20	2031	Cranes	Cranes	1	17.0	367	0.29	Diesel	Tier 4 Final	0.08	0.39	3.93	0.01	-	0.02	0.02	-	0.02	0.02	723.6	0.03	0.01	726.1
Segment 2-Mountain-Tunnel Boring/Tunneling	9/1/2031	1/31/2034	6	758	20	2031	Rough Terrain Forklifts	Rough Terrain Forklifts	2	17.0	96	0.40	Diesel	Tier 4 Final	0.05	0.28	4.04	0.01	-	0.01	0.01	-	0.01	0.01	523.3	0.02	0.00	525.0
Segment 2-Mountain-TBM Retrieval/Tunnel Prep	2/1/2034	7/31/2034	6	155	20	2034	Cranes	Cranes	2	17.0	367	0.29	Diesel	Tier 4 Final	0.03	0.16	1.61	0.00	-	0.01	0.01	-	0.01	0.01	295.9	0.01	0.00	296.9
Segment 2-Mountain-TBM Retrieval/Tunnel Prep	2/1/2034	7/31/2034	6	155	20	2034	Aerial Lifts	Aerial Lifts	2	17.0	46	0.31	Diesel	Fleet Avg	0.01	0.24	0.25	0.00	-	0.00	0.00	-	0.00	0.00	44.1	0.00	0.00	44.3
Segment 2-Mountain-Annular Grouting	9/1/2031	1/31/2034	6	758	20	2031	Bore/Drill Rigs	Bore/Drill Rigs	2	17.0	83	0.50	Diesel	Tier 4 Final	0.06	0.31	4.36	0.01	-	0.01	0.01	-	0.01	0.01	559.7	0.02	0.00	561.6
Segment 2-Mountain-Annular Grouting	9/1/2031	1/31/2034	6	758	20	2031	Pumps	Pumps	2	17.0	11	0.74	Diesel	Fleet Avg	0.13	0.98	0.69	0.00	-	0.04	0.04	-	0.04	0.04	119.2	0.00	0.00	119.6
Segment 2-Mountain-Invert Construction	5/1/2035	2/28/2037	6	575	20	2035	Pumps	Pumps	2	17.0	11	0.74	Diesel	Fleet Avg	0.10	0.74	0.52	0.00	-	0.03	0.03	-	0.03	0.03	90.4	0.00	0.00	90.8
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	2034	Excavators	Excavators	2	17.0	36	0.38	Diesel	Fleet Avg	0.11	1.26	1.60	0.00	-	0.02	0.02	-	0.01	0.01	207.1	0.01	0.00	207.8
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	2034	Pumps	Pumps	2	17.0	11	0.74	Diesel	Fleet Avg	0.13	0.98	0.69	0.00	-	0.04	0.04	-	0.03	0.03	119.1	0.00	0.00	119.5
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	2034	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	17.0	84	0.37	Diesel	Tier 4 Final	0.04	0.23	3.26	0.00	-	0.01	0.01	-	0.01	0.01	423.4	0.02	0.00	424.8
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	2034	Air Compressors	Air Compressors	2	17.0	37	0.48	Diesel	Fleet Avg	0.19	1.63	2.36	0.00	-	0.01	0.01	-	0.01	0.01	259.8	0.01	0.00	260.7
Segment 2-Mountain-Rail and Plinth	4/1/2036	3/31/2037	6	313	20	2036	Pumps	Pumps	1	17.0	11	0.74	Diesel	Fleet Avg	0.03	0.20	0.14	0.00	-	0.01	0.01	-	0.01	0.01	24.6	0.00	0.00	24.7
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	2036	Aerial Lifts	Aerial Lifts	8	17.0	46	0.31	Diesel	Fleet Avg	0.09	1.90	2.04	0.00	-	0.01	0.01	-	0.01	0.01	356.3	0.01	0.00	357.5
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	2036	Rough Terrain Forklifts	Rough Terrain Forklifts	2	17.0	96	0.40	Diesel	Tier 4 Final	0.02	0.12	1.67	0.00	-	0.00	0.00	-	0.00	0.00	216.1	0.01	0.00	216.8
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	2036	Generator Sets	Generator Sets	1	17.0	14	0.74	Diesel	Fleet Avg	0.03	0.26	0.17	0.00	-	0.01	0.01	-	0.01	0.01	31.3	0.00	0.00	31.4
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	2036	Aerial Lifts	Aerial Lifts	4	17.0	46	0.31	Diesel	Fleet Avg	0.05	0.95	1.02	0.00	-	0.01	0.01	-	0.00	0.00	178.1	0.01	0.00	178.7
Segment 3-Valley-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Bore/Drill Rigs	Bore/Drill Rigs	2	17.0	83	0.50	Diesel	Tier 4 Final	0.01	0.04	0.60	0.00	-	0.00	0.00	-	0.00	0.00	77.5	0.00	0.00	77.8
Segment 3-Valley-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Pumps	Pumps	2	17.0	11	0.74	Diesel	Fleet Avg	0.02	0.14	0.10	0.00	-	0.01	0.01	-	0.00	0.00	16.5	0.00	0.00	16.6
Segment 3-Valley-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Cranes	Cranes	2	17.0	367	0.29	Diesel	Tier 4 Final	0.02	0.11	1.09	0.00	-	0.00	0.00	-	0.00	0.00	200.5	0.01	0.00	201.2
Segment 3-Valley-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Aerial Lifts	Aerial Lifts	2	17.0	46	0.31	Diesel	Fleet Avg	0.01	0.16	0.17	0.00	-	0.00	0.00	-	0.00	0.00	29.9	0.00	0.00	30.0
Segment 3-Valley-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Rough Terrain Forklifts	Rough Terrain Forklifts	2	17.0	96	0.40	Diesel	Tier 4 Final	0.01	0.04	0.56	0.00	-	0.00	0.00	-	0.00	0.00	72.5	0.00	0.00	72.7
Segment 3-Valley-Tunnel Boring/Tunneling	9/1/2031	8/31/2032	6	314	20	2031	Tunnel Boring Machine (TBM)	Other Construction Equipment	2	17.0	82	0.42	Electric	--	0.02	0.11	1.50	0.00	-	0.00	0.00	-	0.00	0.00	193.7	0.01	0.00	194.4
Segment 3-Valley-Tunnel Boring/Tunneling	9/1/2031	8/31/2032	6	314	20	2031	Cranes	Cranes	1	17.0	367	0.29	Diesel	Tier 4 Final	0.03	0.16	1.63	0.00	-	0.01	0.01	-	0.01	0.01	299.7	0.01	0.00	300.8
Segment 3-Valley-Tunnel Boring/Tunneling	9/1/2031	8/31/2032	6	314	20	2031	Rough Terrain Forklifts	Rough Terrain Forklifts	2	17.0	96	0.40	Diesel	Tier 4 Final	0.02	0.12	1.67	0.00	-	0.00	0.00	-	0.00	0.00	216.8	0.01	0.00	217.5
Segment 3-Valley-TBM Retrieval/Tunnel Prep	9/1/2032	2/28/2033	6	155	20	2032	Cranes	Cranes	2	17.0	367	0.29	Diesel	Tier 4 Final	0.03	0.16	1.61	0.00	-	0.01	0.01	-	0.01	0.01	295.9	0.01	0.00	296.9
Segment 3-Valley-TBM Retrieval/Tunnel Prep	9/1/2032	2/28/2033	6	155	20	2032	Aerial Lifts	Aerial Lifts	2	17.0	46	0.31	Diesel	Fleet Avg	0.01	0.24	0.25	0.00	-	0.00	0.00	-	0.00	0.00	44.1	0.00	0.00	44.3
Segment 3-Valley-Annular Grouting	9/1/2031	8/31/2032	6	314	20	2031	Bore/Drill Rigs	Bore/Drill Rigs	2	17.0	83	0.50	Diesel	Tier 4 Final	0.02	0.13	1.81	0.00	-	0.00	0.00	-	0.00	0.00	231.9	0.01	0.00	232.7
Segment 3-Valley-Annular Grouting	9/1/2031	8/31/2032	6	314	20	2031	Pumps	Pumps	2	17.0	11	0.74	Diesel	Fleet Avg	0.05	0.41	0.28	0.00	-	0.02	0.02	-	0.01	0.01	49.4	0.00	0.00	49.6
Segment 3-Valley-Invert Construction	4/1/2034	5/31/2035	6	365	20	2034	Pumps	Pumps	2	17.0	11	0.74	Diesel	Fleet Avg	0.06	0.47	0.33	0.00	-	0.02	0.02	-	0.02	0.02	57.4	0.00	0.00	57.6
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	2032	Excavators	Excavators	2	17.0	36	0.38	Diesel	Fleet Avg	0.07	0.83	1.05	0.00	-	0.01	0.01	-	0.01	0.01	135.4	0.01	0.00	135.9
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	2032	Pumps	Pumps	2	17.0	11	0.74	Diesel	Fleet Avg	0.08	0.64	0.45	0.00	-	0.02	0.02	-	0.02	0.02	77.9	0.00	0.00	78.1
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	2032	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	17.0	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.13	0.00	-	0.01	0.01	-	0.01	0.01	276.8	0.01	0.00	277.8
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	2032	Air Compressors	Air Compressors	2	17.0	37	0.48	Diesel	Fleet Avg	0.13	1.08	1.54	0.00	-	0.01	0.01	-	0.01	0.01	169.9	0.01	0.00	170.4
Segment 3-Valley-Rail and Plinth	8/1/2034	9/30/2035	6	365	20	2034	Pumps	Pumps	1	17.0	11	0.74	Diesel	Fleet Avg	0.03	0.24	0.17	0.00	-	0.01	0.01	-	0.01	0.01	28.7	0.00	0.00	28.8
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Aerial Lifts	Aerial Lifts	8	17.0	46	0.31	Diesel	Fleet Avg	0.09	1.90	2.04	0.00	-	0.01	0.01	-	0.01	0.01	356.3	0.01	0.00	357.5
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Rough Terrain Forklifts	Rough Terrain Forklifts	2	17.0	96	0.40	Diesel	Tier 4 Final	0.02	0.12	1.67	0.00	-	0.00	0.00	-	0.00	0.00	216.1	0.01	0.00	216.8
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Generator Sets	Generator Sets	1	17.0	14	0.74	Diesel	Fleet Avg	0.03	0.26	0.17	0.00	-	0.01	0.01	-	0.01	0.01	31.3	0.00	0.00	31.4
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Aerial Lifts	Aerial Lifts	4	17.0	46	0.31	Diesel	Fleet Avg	0.05	0.95	1.02	0.00	-	0.01	0.01	-	0.00	0.00	178.1	0.01	0.00	178.7
Mid Mountain Shaft-Site Preparation/Demolition	11/1/2031	12/31/2031	6	52	10	2031	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.11	0.00	-	0.00	0.00	-	0.00	0.00	14.5	0.00	0.00	14.6
Mid Mountain Shaft-Site Preparation/Demolition	11/1/2031	12/31/2031	6	52	10	2031	Excavators	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.02	0.03	0.00	-	0.00	0.00	-	0.00	0.00	3.6	0.00	0.00	3.6

Sepulveda Transit Corridor Project - ALTERNATIVE 6

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Emission Factor (g/bhp-hr)[3] ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	2031	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	2031	Pavers	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	525.85	0.02	0.00
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	2031	Rollers	Rollers	1	8.5	36	0.38	Diesel	Fleet Avg	0.44	3.44	4.04	0.01	-	0.11	0.11	-	0.10	0.10	587.11	0.02	0.00
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	2031	Excavators	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.31	3.28	4.17	0.01	-	0.06	0.06	-	0.05	0.05	588.07	0.02	0.00
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	2031	Scrapers	Scrapers	1	8.5	423	0.48	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	528.52	0.02	0.00
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	2031	Crawler Tractors	Crawler Tractors	2	8.5	87	0.43	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.99	0.02	0.00
Mid Mountain Shaft-Drainage/Utilities	11/1/2031	12/31/2031	6	52	10	2031	Excavators	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.31	3.28	4.17	0.01	-	0.06	0.06	-	0.05	0.05	588.07	0.02	0.00
Mid Mountain Shaft-Drainage/Utilities	11/1/2031	12/31/2031	6	52	10	2031	Pumps	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.24	2.97	0.01	-	0.17	0.17	-	0.15	0.15	568.32	0.02	0.00
Mid Mountain Shaft-Drainage/Utilities	11/1/2031	12/31/2031	6	52	10	2031	Rollers	Rollers	1	8.5	36	0.38	Diesel	Fleet Avg	0.44	3.44	4.04	0.01	-	0.11	0.11	-	0.10	0.10	587.11	0.02	0.00
Mid Mountain Shaft-Shaft Drilling	1/1/2032	12/31/2032	6	314	10	2032	Bore/Drill Rigs	Bore/Drill Rigs	1	8.5	83	0.50	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.33	0.02	0.00
Mid Mountain Shaft-Shaft Drilling	1/1/2032	12/31/2032	6	314	10	2032	Cranes	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Mid Mountain Shaft-Shaft Drilling	1/1/2032	12/31/2032	6	314	10	2032	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Mid Mountain Shaft-Cavern and Adit	1/1/2033	12/31/2033	6	313	10	2033	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
Mid Mountain Shaft-Cavern and Adit	1/1/2033	12/31/2033	6	313	10	2033	Pumps	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete/Industrial Saws	Concrete/Industrial Saws	2	8.5	33	0.73	Diesel	Fleet Avg	0.35	3.29	4.26	0.01	-	0.05	0.05	-	0.04	0.04	574.49	0.02	0.00
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Cranes	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Trenchers	Trenchers	1	8.5	40	0.50	Diesel	Fleet Avg	0.42	3.32	3.95	0.01	-	0.09	0.09	-	0.09	0.09	588.16	0.02	0.00
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Rollers	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.49	3.48	4.09	0.01	-	0.13	0.13	-	0.12	0.12	587.11	0.02	0.00
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Cement and Mortar Mixers	Cement and Mortar Mixers	1	8.5	10	0.56	Diesel	Fleet Avg	0.55	4.20	3.25	0.01	-	0.16	0.16	-	0.15	0.15	570.22	0.02	0.00
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Pavers	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	525.84	0.02	0.00
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Surfacing Equipment	Surfacing Equipment	1	8.5	399	0.30	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.28	0.02	0.00
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Sweepers/Scrubbers	Sweepers/Scrubbers	1	8.5	36	0.46	Diesel	Fleet Avg	0.51	3.56	4.72	0.01	-	0.12	0.12	-	0.11	0.11	586.87	0.02	0.00
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	4	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Concrete/Industrial Saws	Concrete/Industrial Saws	2	8.5	33	0.73	Diesel	Fleet Avg	0.35	3.29	4.26	0.01	-	0.05	0.05	-	0.04	0.04	574.49	0.02	0.00
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Skid Steer Loaders	Skid Steer Loaders	2	8.5	71	0.37	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.01	0.02	0.00
Van Nuys Metrolink Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Crawler Tractors	Crawler Tractors	2	8.5	87	0.43	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.99	0.02	0.00
Van Nuys Metrolink Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Van Nuys Metrolink Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Van Nuys Metrolink Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Pumps	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.26	2.98	0.01	-	0.17	0.17	-	0.15	0.15	568.32	0.02	0.00
Van Nuys Metrolink Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Rollers	Rollers	1	8.5	36	0.38	Diesel	Fleet Avg	0.49	3.48	4.09	0.01	-	0.13	0.13	-	0.12	0.12	587.11	0.02	0.00
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Bore/Drill Rigs	Bore/Drill Rigs	2	8.5	83	0.50	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.33	0.02	0.00
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Excavators	Excavators	4	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Pumps	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.26	2.98	0.01	-	0.17	0.17	-	0.15	0.15	568.32	0.02	0.00
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Excavators	Excavators	6	8.5	36	0.38	Diesel	Fleet Avg	0.33	3.30	4.19	0.01	-	0.07	0.07	-	0.06	0.06	588.07	0.02	0.00
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Aerial Lifts	Aerial Lifts	2	8.5	46	0.31	Diesel	Fleet Avg	0.15	2.86	3.07	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Pumps	Pumps	3	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Aerial Lifts	Aerial Lifts	3	8.5	46	0.31	Diesel	Fleet Avg	0.14	2.85	3.06	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Air Compressors	Air Compressors	2	8.5	37	0.48	Diesel	Fleet Avg	0.39	3.25	4.68	0.01	-	0.03	0.03	-	0.03	0.03	568.34	0.02	0.00
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Welders	Welders	2	8.5	46	0.45	Diesel	Fleet Avg	0.34	3.19	4.35	0.01	-	0.03	0.03	-	0.03	0.03	568.31	0.02	0.00
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Generator Sets	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.31	0.02	0.00
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Skid Steer Loaders	Skid Steer Loaders	1	8.5	71	0.37	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.01	0.02	0.00
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Pavers	Pavers	2	8.5	81	0.42	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	525.85	0.02	0.00
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Surfacing Equipment	Surfacing Equipment	1	8.5	399	0.30	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.28	0.02	0.00
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Sweepers/Scrubbers	Sweepers/Scrubbers	1	8.5	36	0.46	Diesel	Fleet Avg	0.35	3.37	4.53	0.01	-	0.05	0.05	-	0.05	0.05	586.87	0.02	0.00
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Rollers	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.34	3.29	3.91	0.01	-	0.07	0.07	-	0.07	0.07	587.11	0.02	0.00
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Aerial Lifts	Aerial Lifts	4	8.5	46	0.31	Diesel	Fleet Avg	0.14	2.84	3.05	0.01	-	0.02	0.02	-	0.01	0.01	586.90	0.02	0.00
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Generator Sets	Generator Sets	1	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.32	0.02	0.00
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Forklifts	Forklifts	2	8.5	82	0.20	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	527.08	0.02	0.00
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Air Compressors	Air Compressors	2	8.5	37	0.48	Diesel	Fleet Avg	0.38	3.22	4.68	0.01	-	0.02	0.02	-	0.02	0.02	568.38	0.02	0.00
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete/Industrial Saws	Concrete/Industrial Saws	2	8.5	33	0.73	Diesel	Fleet Avg	0.35	3.29	4.26	0.01	-	0.05	0.05	-	0.04	0.04	574.49	0.02	0.00
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Cranes	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Trenchers	Trenchers	1	8.5	40	0.50	Diesel	Fleet Avg	0.42	3.32	3.95	0.01	-	0.09	0.09	-	0.09	0.09	588.16	0.02	0.00
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Rollers	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.49	3.48	4.09	0.01	-	0.13	0.13	-	0.12	0.12	587.11	0.02	0.00
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Cement and Mortar Mixers	Cement and Mortar Mixers	1	8.5	10	0.56	Diesel	Fleet Avg	0.55	4.20	3.25	0.01	-	0.16	0.16	-	0.15	0.15	570.22	0.02	0.00
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Pavers	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	525.84	0.02	0.00
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Surfacing Equipment	Surfacing Equipment	1	8.5	399	0.30	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.28	0.02	0.00
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Sweepers/Scrubbers	Sweepers/Scrubbers	1	8.5	36	0.46	Diesel	Fleet Avg	0.51	3.56	4.72	0.01	-	0.12	0.12	-	0.11	0.11	586.87	0.02	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 6

OFFROAD EQUIPMENT (ONSITE)[1]

																Daily Emissions (lb/day)													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O		
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	2031	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.06	0.30	4.31	0.01	-	0.01	0.01	-	0.01	0.01	616.5	0.03	0.01		
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	2031	Pavers	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.03	0.17	2.36	0.00	-	0.01	0.01	-	0.01	0.01	335.2	0.01	0.00		
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	2031	Rollers	Rollers	1	8.5	36	0.38	Diesel	Fleet Avg	0.11	0.88	1.03	0.00	-	0.03	0.03	-	0.03	0.03	150.5	0.01	0.00		
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	2031	Excavators	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.08	0.84	1.07	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00		
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	2031	Scrapers	Scrapers	1	8.5	423	0.48	Diesel	Tier 4 Final	0.19	0.99	9.89	0.02	-	0.04	0.04	-	0.04	0.04	2010.9	0.08	0.02		
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	2031	Crawler Tractors	Crawler Tractors	2	8.5	87	0.43	Diesel	Tier 4 Final	0.07	0.36	5.19	0.01	-	0.01	0.01	-	0.01	0.01	741.7	0.03	0.01		
Mid Mountain Shaft-Drainage/Utilities	11/1/2031	12/31/2031	6	52	10	2031	Excavators	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.08	0.84	1.07	0.00	-	0.01	0.01	-	0.01	0.01	150.8	0.01	0.00		
Mid Mountain Shaft-Drainage/Utilities	11/1/2031	12/31/2031	6	52	10	2031	Pumps	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.08	0.65	0.45	0.00	-	0.03	0.03	-	0.02	0.02	86.7	0.00	0.00		
Mid Mountain Shaft-Drainage/Utilities	11/1/2031	12/31/2031	6	52	10	2031	Rollers	Rollers	1	8.5	36	0.38	Diesel	Fleet Avg	0.11	0.88	1.03	0.00	-	0.03	0.03	-	0.03	0.03	150.5	0.01	0.00		
Mid Mountain Shaft-Shaft Drilling	1/1/2032	12/31/2032	6	314	10	2032	Bore/Drill Rigs	Bore/Drill Rigs	1	8.5	83	0.50	Diesel	Tier 4 Final	0.04	0.20	2.88	0.00	-	0.01	0.01	-	0.01	0.01	407.0	0.02	0.00		
Mid Mountain Shaft-Shaft Drilling	1/1/2032	12/31/2032	6	314	10	2032	Cranes	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01		
Mid Mountain Shaft-Shaft Drilling	1/1/2032	12/31/2032	6	314	10	2032	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.15	2.15	0.00	-	0.01	0.01	-	0.01	0.01	308.3	0.01	0.00		
Mid Mountain Shaft-Cavern and Adit	1/1/2033	12/31/2033	6	313	10	2033	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.14	1.67	2.12	0.00	-	0.02	0.02	-	0.02	0.02	301.5	0.01	0.00		
Mid Mountain Shaft-Cavern and Adit	1/1/2033	12/31/2033	6	313	10	2033	Pumps	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.17	1.29	0.91	0.00	-	0.05	0.05	-	0.05	0.05	173.4	0.01	0.00		
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete/Industrial Saws	Concrete/Industrial Saws	2	8.5	33	0.73	Diesel	Fleet Avg	0.32	2.97	3.84	0.01	-	0.04	0.04	-	0.04	0.04	518.7	0.02	0.00		
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Cranes	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01		
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.18	1.70	2.17	0.00	-	0.04	0.04	-	0.04	0.04	301.5	0.01	0.00		
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01		
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Trenchers	Trenchers	1	8.5	40	0.50	Diesel	Fleet Avg	0.16	1.25	1.48	0.00	-	0.04	0.04	-	0.03	0.03	220.4	0.01	0.00		
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Rollers	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.25	1.78	2.10	0.00	-	0.06	0.06	-	0.06	0.06	301.0	0.01	0.00		
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Cement and Mortar Mixers	Cement and Mortar Mixers	1	8.5	10	0.56	Diesel	Fleet Avg	0.06	0.44	0.34	0.00	-	0.02	0.02	-	0.02	0.02	59.8	0.00	0.00		
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Pavers	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.03	0.17	2.36	0.00	-	0.01	0.01	-	0.01	0.01	335.2	0.01	0.00		
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Surfacing Equipment	Surfacing Equipment	1	8.5	399	0.30	Diesel	Tier 4 Final	0.11	0.58	5.83	0.01	-	0.02	0.02	-	0.02	0.02	1182.7	0.05	0.01		
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Sweepers/Scrubbers	Sweepers/Scrubbers	1	8.5	36	0.46	Diesel	Fleet Avg	0.16	1.11	1.46	0.00	-	0.04	0.04	-	0.03	0.03	182.1	0.01	0.00		
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	4	8.5	84	0.37	Diesel	Tier 4 Final	0.12	0.61	8.62	0.01	-	0.02	0.02	-	0.02	0.02	1233.0	0.05	0.01		
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.18	1.70	2.17	0.00	-	0.04	0.04	-	0.04	0.04	301.5	0.01	0.00		
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Concrete/Industrial Saws	Concrete/Industrial Saws	2	8.5	33	0.73	Diesel	Fleet Avg	0.32	2.97	3.84	0.01	-	0.04	0.04	-	0.04	0.04	518.7	0.02	0.00		
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Skid Steer Loaders	Skid Steer Loaders	2	8.5	71	0.37	Diesel	Tier 4 Final	0.09	2.70	3.64	0.00	-	0.01	0.01	-	0.01	0.01	520.8	0.02	0.00		
Van Nuys Metrolink Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Crawler Tractors	Crawler Tractors	2	8.5	87	0.43	Diesel	Tier 4 Final	0.07	0.36	5.19	0.01	-	0.01	0.01	-	0.01	0.01	741.7	0.03	0.01		
Van Nuys Metrolink Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.18	1.70	2.17	0.00	-	0.04	0.04	-	0.04	0.04	301.5	0.01	0.00		
Van Nuys Metrolink Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.18	1.70	2.17	0.00	-	0.04	0.04	-	0.04	0.04	301.5	0.01	0.00		
Van Nuys Metrolink Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Pumps	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.17	1.30	0.91	0.00	-	0.05	0.05	-	0.05	0.05	173.4	0.01	0.00		
Van Nuys Metrolink Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Rollers	Rollers	1	8.5	36	0.38	Diesel	Fleet Avg	0.13	0.89	1.05	0.00	-	0.03	0.03	-	0.03	0.03	150.5	0.01	0.00		
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Bore/Drill Rigs	Bore/Drill Rigs	2	8.5	83	0.50	Diesel	Tier 4 Final	0.08	0.40	5.75	0.01	-	0.02	0.02	-	0.02	0.02	814.0	0.03	0.01		
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Excavators	Excavators	4	8.5	36	0.38	Diesel	Fleet Avg	0.37	3.40	4.33	0.01	-	0.08	0.08	-	0.07	0.07	603.0	0.02	0.00		
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01		
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.20	1.04	10.37	0.02	-	0.04	0.04	-	0.04	0.04	2104.6	0.09	0.02		
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Pumps	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.17	1.30	0.91	0.00	-	0.05	0.05	-	0.05	0.05	173.4	0.01	0.00		
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.20	1.04	10.37	0.02	-	0.04	0.04	-	0.04	0.04	2104.6	0.09	0.02		
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Excavators	Excavators	6	8.5	36	0.38	Diesel	Fleet Avg	0.50	5.07	6.44	0.01	-	0.10	0.10	-	0.09	0.09	904.5	0.04	0.01		
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.06	0.30	4.31	0.01	-	0.01	0.01	-	0.01	0.01	616.5	0.03	0.01		
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01		
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Aerial Lifts	Aerial Lifts	2	8.5	46	0.31	Diesel	Fleet Avg	0.08	1.53	1.64	0.00	-	0.01	0.01	-	0.01	0.01	313.7	0.01	0.00		
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.20	1.04	10.37	0.02	-	0.04	0.04	-	0.04	0.04	2104.6	0.09	0.02		
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Pumps	Pumps	3	8.5	11	0.74	Diesel	Fleet Avg	0.25	1.94	1.36	0.00	-	0.07	0.07	-	0.07	0.07	260.1	0.01	0.00		
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01		
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Aerial Lifts	Aerial Lifts	3	8.5	46	0.31	Diesel	Fleet Avg	0.12	2.29	2.45	0.00	-	0.01	0.01	-	0.01	0.01	470.5	0.02	0.00		
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Air Compressors	Air Compressors	2	8.5	37	0.48	Diesel	Fleet Avg	0.26	2.17	3.12	0.00	-	0.02	0.02	-	0.02	0.02	378.3	0.02	0.00		
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Welders	Welders	2	8.5	46	0.45	Diesel	Fleet Avg	0.27	2.47	3.38	0.01	-	0.02	0.02	-	0.02	0.02	440.9	0.02	0.00		
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Generator Sets	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00		
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.06	0.30	4.31	0.01	-	0.01	0.01	-	0.01	0.01	616.5	0.03	0.01		
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Skid Steer Loaders	Skid Steer Loaders	1	8.5	71	0.37	Diesel	Tier 4 Final	0.04	1.35	1.82	0.00	-	0.00	0.00	-	0.00	0.00	260.4	0.01	0.00		
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Pavers	Pavers	2	8.5	81	0.42	Diesel	Tier 4 Final	0.06	0.33	4.72	0.01	-	0.01	0.01	-	0.01	0.01	670.5	0.03	0.01		
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Surfacing Equipment	Surfacing Equipment	1	8.5	399	0.30	Diesel	Tier 4 Final	0.11	0.58	5.83	0.01	-	0.02	0.02	-	0.02	0.02	1182.7	0.05	0.01		
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Sweepers/Scrubbers	Sweepers/Scrubbers	1	8.5	36	0.46	Diesel	Fleet Avg	0.11	1.04	1.40	0.00	-	0.02	0.02	-	0.02	0.02	182.1	0.01	0.00		
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Rollers	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.18	1.68	2.00	0.00	-	0.04	0.04	-	0.03	0.03	301.0	0.01	0.00		
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Aerial Lifts	Aerial Lifts	4	8.5	46	0.31	Diesel	Fleet Avg	0.15	3.04	3.26	0.01	-	0.02	0.02	-	0.01	0.01	627.3	0.03	0.01		
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Generator Sets	Generator Sets	1	8.5	14	0.74	Diesel	Fleet Avg	0.10	0.82	0.55	0.00	-	0.03	0.03	-	0.03	0.03	110.3	0.00	0.00		
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Forklifts	Forklifts	2	8.5	82	0.20	Diesel	Tier 4 Final	0.03	0.16	2.27	0.00	-	0.01	0.01	-	0.01	0.01	324.0	0.01	0.00		
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Air Compressors	Air Compressors	2	8.5	37	0.48	Diesel	Fleet Avg	0.25	2.14	3.11	0.00	-	0.02	0.02	-	0.01	0.01	378.3	0.02	0.00		
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete/Industrial Saws	Concrete/Industrial Saws	2	8.5	33	0.73	Diesel	Fleet Avg	0.32	2.97	3.84	0.01	-	0.04	0.04	-	0.04	0.04	518.7	0.02	0.00		
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Cranes	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01		
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.18	1.70	2.17	0.00	-	0.04	0.04	-	0.04	0.04	301.5	0.01	0.00		
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01		
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Trenchers	Trenchers	1	8.5	40	0.50	Diesel	Fleet Avg	0.16	1.25	1.48	0.00	-	0.04	0.04	-	0.03	0.03	220.4	0.01	0.00		
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Rollers	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.25	1.78	2.10	0.00	-	0.06	0.06	-	0.06	0.06	301.0	0.01	0.00		
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Cement and Mortar Mixers	Cement and Mortar Mixers	1	8.5	10	0.56	Diesel	Fleet Avg	0.06	0.44	0.34	0.00	-	0.02	0.02	-	0.02	0.02	59.8	0.00	0.00		
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Pavers	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.03	0.17	2.36	0.00	-	0.01	0.01	-	0.01	0.01	335.2	0.01	0.00		
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Surfacing Equipment	Surfacing Equipment	1	8.5	399	0.30	Diesel	Tier 4 Final	0.11	0.58	5.83	0.01	-	0.02	0.02	-	0.02	0.02	1182.7	0.05	0.01		
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Sweepers/Scrubbers	Sweepers/Scrubbers	1	8.5	36	0.46	Diesel	Fleet Avg	0.16	1.11	1.46	0.00	-	0.04	0.04	-	0.03	0.03	182.1	0.01	0.00		

Sepulveda Transit Corridor Project - ALTERNATIVE 6

OFFROAD EQUIPMENT (ONSITE)[1]

																Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	2031	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.02	0.34	0.00	-	0.00	0.00	-	0.00	0.00	44.2	0.00	0.00	44.3
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	2031	Pavers	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.00	0.01	0.19	0.00	-	0.00	0.00	-	0.00	0.00	24.0	0.00	0.00	24.1
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	2031	Rollers	Rollers	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.07	0.08	0.00	-	0.00	0.00	-	0.00	0.00	10.8	0.00	0.00	10.8
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	2031	Excavators	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.07	0.08	0.00	-	0.00	0.00	-	0.00	0.00	10.8	0.00	0.00	10.8
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	2031	Scrapers	Scrapers	1	8.5	423	0.48	Diesel	Tier 4 Final	0.02	0.08	0.78	0.00	-	0.00	0.00	-	0.00	0.00	144.1	0.01	0.00	144.6
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	2031	Crawler Tractors	Crawler Tractors	2	8.5	87	0.43	Diesel	Tier 4 Final	0.01	0.03	0.41	0.00	-	0.00	0.00	-	0.00	0.00	53.2	0.00	0.00	53.3
Mid Mountain Shaft-Drainage/Utilities	11/1/2031	12/31/2031	6	52	10	2031	Excavators	Excavators	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.02	0.03	0.00	-	0.00	0.00	-	0.00	0.00	3.6	0.00	0.00	3.6
Mid Mountain Shaft-Drainage/Utilities	11/1/2031	12/31/2031	6	52	10	2031	Pumps	Pumps	1	8.5	11	0.74	Diesel	Fleet Avg	0.00	0.02	0.01	0.00	-	0.00	0.00	-	0.00	0.00	2.0	0.00	0.00	2.1
Mid Mountain Shaft-Drainage/Utilities	11/1/2031	12/31/2031	6	52	10	2031	Rollers	Rollers	1	8.5	36	0.38	Diesel	Fleet Avg	0.00	0.02	0.03	0.00	-	0.00	0.00	-	0.00	0.00	3.6	0.00	0.00	3.6
Mid Mountain Shaft-Shaft Drilling	1/1/2032	12/31/2032	6	314	10	2032	Bore/Drill Rigs	Bore/Drill Rigs	1	8.5	83	0.50	Diesel	Tier 4 Final	0.01	0.03	0.45	0.00	-	0.00	0.00	-	0.00	0.00	58.0	0.00	0.00	58.2
Mid Mountain Shaft-Shaft Drilling	1/1/2032	12/31/2032	6	314	10	2032	Cranes	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.02	0.08	0.81	0.00	-	0.00	0.00	-	0.00	0.00	149.9	0.01	0.00	150.4
Mid Mountain Shaft-Shaft Drilling	1/1/2032	12/31/2032	6	314	10	2032	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	1	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.02	0.34	0.00	-	0.00	0.00	-	0.00	0.00	43.9	0.00	0.00	44.1
Mid Mountain Shaft-Cavern and Adit	1/1/2033	12/31/2033	6	313	10	2033	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.02	0.26	0.33	0.00	-	0.00	0.00	-	0.00	0.00	42.8	0.00	0.00	43.0
Mid Mountain Shaft-Cavern and Adit	1/1/2033	12/31/2033	6	313	10	2033	Pumps	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.03	0.20	0.14	0.00	-	0.01	0.01	-	0.01	0.01	24.6	0.00	0.00	24.7
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete/Industrial Saws	Concrete/Industrial Saws	2	8.5	33	0.73	Diesel	Fleet Avg	0.02	0.23	0.30	0.00	-	0.00	0.00	-	0.00	0.00	36.7	0.00	0.00	36.8
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Cranes	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.01	0.04	0.40	0.00	-	0.00	0.00	-	0.00	0.00	74.5	0.00	0.00	74.7
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.13	0.17	0.00	-	0.00	0.00	-	0.00	0.00	21.3	0.00	0.00	21.4
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.01	0.03	0.42	0.00	-	0.00	0.00	-	0.00	0.00	53.8	0.00	0.00	54.0
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Trenchers	Trenchers	1	8.5	40	0.50	Diesel	Fleet Avg	0.01	0.10	0.12	0.00	-	0.00	0.00	-	0.00	0.00	15.6	0.00	0.00	15.7
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Rollers	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.02	0.14	0.16	0.00	-	0.01	0.01	-	0.00	0.00	21.3	0.00	0.00	21.4
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Cement and Mortar Mixers	Cement and Mortar Mixers	1	8.5	10	0.56	Diesel	Fleet Avg	0.00	0.03	0.03	0.00	-	0.00	0.00	-	0.00	0.00	4.2	0.00	0.00	4.2
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Pavers	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.00	0.01	0.18	0.00	-	0.00	0.00	-	0.00	0.00	23.7	0.00	0.00	23.8
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Surfacing Equipment	Surfacing Equipment	1	8.5	399	0.30	Diesel	Tier 4 Final	0.01	0.05	0.45	0.00	-	0.00	0.00	-	0.00	0.00	83.7	0.00	0.00	84.0
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Sweepers/Scrubbers	Sweepers/Scrubbers	1	8.5	36	0.46	Diesel	Fleet Avg	0.01	0.09	0.11	0.00	-	0.00	0.00	-	0.00	0.00	12.9	0.00	0.00	12.9
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	4	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.02	0.34	0.00	-	0.00	0.00	-	0.00	0.00	43.6	0.00	0.00	43.8
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.07	0.08	0.00	-	0.00	0.00	-	0.00	0.00	10.7	0.00	0.00	10.7
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Concrete/Industrial Saws	Concrete/Industrial Saws	2	8.5	33	0.73	Diesel	Fleet Avg	0.01	0.12	0.15	0.00	-	0.00	0.00	-	0.00	0.00	18.4	0.00	0.00	18.4
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Skid Steer Loaders	Skid Steer Loaders	2	8.5	71	0.37	Diesel	Tier 4 Final	0.00	0.11	0.14	0.00	-	0.00	0.00	-	0.00	0.00	18.4	0.00	0.00	18.5
Van Nuys Metrolink Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Crawler Tractors	Crawler Tractors	2	8.5	87	0.43	Diesel	Tier 4 Final	0.00	0.01	0.20	0.00	-	0.00	0.00	-	0.00	0.00	26.2	0.00	0.00	26.3
Van Nuys Metrolink Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.07	0.08	0.00	-	0.00	0.00	-	0.00	0.00	10.7	0.00	0.00	10.7
Van Nuys Metrolink Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.09	0.11	0.00	-	0.00	0.00	-	0.00	0.00	14.2	0.00	0.00	14.3
Van Nuys Metrolink Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Pumps	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.01	0.07	0.05	0.00	-	0.00	0.00	-	0.00	0.00	8.2	0.00	0.00	8.2
Van Nuys Metrolink Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Rollers	Rollers	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.05	0.05	0.00	-	0.00	0.00	-	0.00	0.00	7.1	0.00	0.00	7.1
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Bore/Drill Rigs	Bore/Drill Rigs	2	8.5	83	0.50	Diesel	Tier 4 Final	0.01	0.03	0.45	0.00	-	0.00	0.00	-	0.00	0.00	57.6	0.00	0.00	57.8
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Excavators	Excavators	4	8.5	36	0.38	Diesel	Fleet Avg	0.03	0.26	0.34	0.00	-	0.01	0.01	-	0.01	0.01	42.7	0.00	0.00	42.8
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.01	0.03	0.42	0.00	-	0.00	0.00	-	0.00	0.00	53.8	0.00	0.00	54.0
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.02	0.08	0.81	0.00	-	0.00	0.00	-	0.00	0.00	148.9	0.01	0.00	149.4
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Pumps	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.01	0.10	0.07	0.00	-	0.00	0.00	-	0.00	0.00	12.3	0.00	0.00	12.3
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.02	0.12	1.22	0.00	-	0.00	0.00	-	0.00	0.00	225.3	0.01	0.00	226.1
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Excavators	Excavators	6	8.5	36	0.38	Diesel	Fleet Avg	0.06	0.60	0.76	0.00	-	0.01	0.01	-	0.01	0.01	96.8	0.00	0.00	97.2
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.01	0.04	0.51	0.00	-	0.00	0.00	-	0.00	0.00	66.0	0.00	0.00	66.2
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.01	0.04	0.63	0.00	-	0.00	0.00	-	0.00	0.00	81.5	0.00	0.00	81.7
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Aerial Lifts	Aerial Lifts	2	8.5	46	0.31	Diesel	Fleet Avg	0.01	0.18	0.19	0.00	-	0.00	0.00	-	0.00	0.00	33.6	0.00	0.00	33.7
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.50	5.00	0.01	-	0.02	0.02	-	0.02	0.02	921.2	0.04	0.01	924.4
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Pumps	Pumps	3	8.5	11	0.74	Diesel	Fleet Avg	0.12	0.93	0.66	0.00	-	0.04	0.04	-	0.03	0.03	113.8	0.00	0.00	114.2
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.03	0.18	2.57	0.00	-	0.01	0.01	-	0.01	0.01	333.1	0.01	0.00	334.2
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Aerial Lifts	Aerial Lifts	3	8.5	46	0.31	Diesel	Fleet Avg	0.06	1.10	1.18	0.00	-	0.01	0.01	-	0.01	0.01	205.9	0.01	0.00	206.7
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Air Compressors	Air Compressors	2	8.5	37	0.48	Diesel	Fleet Avg	0.13	1.04	1.50	0.00	-	0.01	0.01	-	0.01	0.01	165.6	0.01	0.00	166.2
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Welders	Welders	2	8.5	46	0.45	Diesel	Fleet Avg	0.13	1.19	1.63	0.00	-	0.01	0.01	-	0.01	0.01	193.0	0.01	0.00	193.7
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Generator Sets	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.10	0.80	0.53	0.00	-	0.03	0.03	-	0.03	0.03	96.6	0.00	0.00	96.9
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.02	0.22	0.00	-	0.00	0.00	-	0.00	0.00	29.1	0.00	0.00	29.2
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Skid Steer Loaders	Skid Steer Loaders	1	8.5	71	0.37	Diesel	Tier 4 Final	0.00	0.07	0.09	0.00	-	0.00	0.00	-	0.00	0.00	12.3	0.00	0.00	12.3
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Pavers	Pavers	2	8.5	81	0.42	Diesel	Tier 4 Final	0.00	0.02	0.25	0.00	-	0.00	0.00	-	0.00	0.00	31.6	0.00	0.00	31.7
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Surfacing Equipment	Surfacing Equipment	1	8.5	399	0.30	Diesel	Tier 4 Final	0.01	0.03	0.30	0.00	-	0.00	0.00	-	0.00	0.00	55.8	0.00	0.00	56.0
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Sweepers/Scrubbers	Sweepers/Scrubbers	1	8.5	36	0.46	Diesel	Fleet Avg	0.01	0.05	0.07	0.00	-	0.00	0.00	-	0.00	0.00	8.6	0.00	0.00	8.6
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Rollers	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.09	0.10	0.00	-	0.00	0.00	-	0.00	0.00	14.2	0.00	0.00	14.2
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Aerial Lifts	Aerial Lifts	4	8.5	46	0.31	Diesel	Fleet Avg	0.02	0.48	0.51	0.00	-	0.00	0.00	-	0.00	0.00	89.1	0.00	0.00	89.4
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Generator Sets	Generator Sets	1	8.5	14	0.74	Diesel	Fleet Avg	0.02	0.13	0.09	0.00	-	0.00	0.00	-	0.00	0.00	15.7	0.00	0.00	15.7
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Forklifts	Forklifts	2	8.5	82	0.20	Diesel	Tier 4 Final	0.00	0.03	0.36	0.00	-	0.00	0.00	-	0.00	0.00	46.0	0.00	0.00	46.2
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Air Compressors	Air Compressors	2	8.5	37	0.48	Diesel	Fleet Avg	0.04	0.33	0.49	0.00	-	0.00	0.00	-	0.00	0.00	53.7	0.00	0.00	53.9
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete/Industrial Saws	Concrete/Industrial Saws	2	8.5	33	0.73	Diesel	Fleet Avg	0.02	0.23	0.30	0.00	-	0.00	0.00	-	0.00	0.00	36.7	0.00	0.00	36.8
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Cranes	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.01	0.04	0.40	0.00	-	0.00	0.00	-	0.00	0.00	74.5	0.00	0.00	74.7
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.13	0.17	0.00	-	0.00	0.00	-	0.00	0.00	21.3	0.00	0.00	21.4
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.01	0.03	0.42	0.00	-	0.00	0.00	-	0.00	0.00	53.8	0.00	0.00	54.0
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Trenchers	Trenchers	1	8.5	40	0.50	Diesel	Fleet Avg	0.01	0.10	0.12	0.00	-	0.00	0.00	-	0.00	0.00	15.6	0.00	0.00	15.7
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Rollers	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.02	0.14	0.16	0.00	-	0.01	0.01	-	0.00	0.00	21.3	0.00	0.00	21.4
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Cement and Mortar Mixers	Cement and Mortar Mixers	1	8.5	10	0.56	Diesel	Fleet Avg	0.00	0.03	0.03	0.00	-	0.00	0.00	-	0.00	0.00	4.2	0.00	0.00	4.2
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Pavers	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.00	0.01	0.18	0.00	-	0.00	0.00	-	0.00	0.00	23.7	0.00	0.00	23.8
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Surfacing Equipment	Surfacing Equipment	1	8.5	399	0.30	Diesel	Tier 4 Final	0.01	0.05	0.45	0.00	-	0.00	0.00	-	0.00	0.00	83.7	0.00	0.00	84.0
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Sweepers/Scrubbers	Sweepers/Scrubbers	1	8.5	36	0.46	Diesel	Fleet Avg	0.01	0.09	0.11	0.00	-	0.00	0.00	-	0.00	0.00	12.9	0.00	0.00	12.9

Sepulveda Transit Corridor Project - ALTERNATIVE 6

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Emission Factor (g/bhp-hr)[3] ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	4	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Concrete/Industrial Saws	Concrete/Industrial Saws	2	8.5	33	0.73	Diesel	Fleet Avg	0.35	3.29	4.26	0.01	-	0.05	0.05	-	0.04	0.04	574.49	0.02	0.00
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Skid Steer Loaders	Skid Steer Loaders	2	8.5	71	0.37	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.01	0.02	0.00
Metro G Line Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Crawler Tractors	Crawler Tractors	2	8.5	87	0.43	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.99	0.02	0.00
Metro G Line Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Metro G Line Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Metro G Line Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Pumps	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.26	2.98	0.01	-	0.17	0.17	-	0.15	0.15	568.32	0.02	0.00
Metro G Line Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Rollers	Rollers	1	8.5	36	0.38	Diesel	Fleet Avg	0.49	3.48	4.09	0.01	-	0.13	0.13	-	0.12	0.12	587.11	0.02	0.00
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Bore/Drill Rigs	Bore/Drill Rigs	2	8.5	83	0.50	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.33	0.02	0.00
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Excavators	Excavators	4	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Pumps	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.26	2.98	0.01	-	0.17	0.17	-	0.15	0.15	568.32	0.02	0.00
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Excavators	Excavators	6	8.5	36	0.38	Diesel	Fleet Avg	0.33	3.30	4.19	0.01	-	0.07	0.07	-	0.06	0.06	588.07	0.02	0.00
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Aerial Lifts	Aerial Lifts	2	8.5	46	0.31	Diesel	Fleet Avg	0.15	2.86	3.07	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Pumps	Pumps	3	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Aerial Lifts	Aerial Lifts	3	8.5	46	0.31	Diesel	Fleet Avg	0.14	2.85	3.06	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Air Compressors	Air Compressors	2	8.5	37	0.48	Diesel	Fleet Avg	0.39	3.25	4.68	0.01	-	0.03	0.03	-	0.03	0.03	568.34	0.02	0.00
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Welders	Welders	2	8.5	46	0.45	Diesel	Fleet Avg	0.34	3.19	4.35	0.01	-	0.03	0.03	-	0.03	0.03	568.31	0.02	0.00
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Generator Sets	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.31	0.02	0.00
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Skid Steer Loaders	Skid Steer Loaders	1	8.5	71	0.37	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.01	0.02	0.00
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Pavers	Pavers	2	8.5	81	0.42	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	525.85	0.02	0.00
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Surfacing Equipment	Surfacing Equipment	1	8.5	399	0.30	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.28	0.02	0.00
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Sweepers/Scrubbers	Sweepers/Scrubbers	1	8.5	36	0.46	Diesel	Fleet Avg	0.35	3.37	4.53	0.01	-	0.05	0.05	-	0.05	0.05	586.87	0.02	0.00
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Rollers	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.34	3.29	3.91	0.01	-	0.07	0.07	-	0.07	0.07	587.11	0.02	0.00
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Aerial Lifts	Aerial Lifts	4	8.5	46	0.31	Diesel	Fleet Avg	0.14	2.84	3.05	0.01	-	0.02	0.02	-	0.01	0.01	586.90	0.02	0.00
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Generator Sets	Generator Sets	1	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.32	0.02	0.00
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Forklifts	Forklifts	2	8.5	82	0.20	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	527.08	0.02	0.00
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Air Compressors	Air Compressors	2	8.5	37	0.48	Diesel	Fleet Avg	0.38	3.22	4.68	0.01	-	0.02	0.02	-	0.02	0.02	568.38	0.02	0.00
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete/Industrial Saws	Concrete/Industrial Saws	2	8.5	33	0.73	Diesel	Fleet Avg	0.35	3.29	4.26	0.01	-	0.05	0.05	-	0.04	0.04	574.49	0.02	0.00
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Cranes	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Trenchers	Trenchers	1	8.5	40	0.50	Diesel	Fleet Avg	0.42	3.32	3.95	0.01	-	0.09	0.09	-	0.09	0.09	588.16	0.02	0.00
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Rollers	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.49	3.48	4.09	0.01	-	0.13	0.13	-	0.12	0.12	587.11	0.02	0.00
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Cement and Mortar Mixers	Cement and Mortar Mixers	1	8.5	10	0.56	Diesel	Fleet Avg	0.55	4.20	3.25	0.01	-	0.16	0.16	-	0.15	0.15	570.22	0.02	0.00
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Pavers	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	525.84	0.02	0.00
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Surfacing Equipment	Surfacing Equipment	1	8.5	399	0.30	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.28	0.02	0.00
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Sweepers/Scrubbers	Sweepers/Scrubbers	1	8.5	36	0.46	Diesel	Fleet Avg	0.51	3.56	4.72	0.01	-	0.12	0.12	-	0.11	0.11	586.87	0.02	0.00
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	4	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	2029	Concrete/Industrial Saws	Concrete/Industrial Saws	2	8.5	33	0.73	Diesel	Fleet Avg	0.35	3.29	4.26	0.01	-	0.05	0.05	-	0.04	0.04	574.49	0.02	0.00
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	2029	Skid Steer Loaders	Skid Steer Loaders	2	8.5	71	0.37	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.01	0.02	0.00
Ventura Blvd Station-Grading	4/1/2029	7/31/2029	6	104	10	2029	Crawler Tractors	Crawler Tractors	2	8.5	87	0.43	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.99	0.02	0.00
Ventura Blvd Station-Grading	4/1/2029	7/31/2029	6	104	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Ventura Blvd Station-Drainage	4/1/2029	6/30/2030	6	390	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Ventura Blvd Station-Drainage	4/1/2029	6/30/2030	6	390	10	2029	Pumps	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.26	2.98	0.01	-	0.17	0.17	-	0.15	0.15	568.32	0.02	0.00
Ventura Blvd Station-Drainage	4/1/2029	6/30/2030	6	390	10	2029	Rollers	Rollers	1	8.5	36	0.38	Diesel	Fleet Avg	0.49	3.48	4.09	0.01	-	0.13	0.13	-	0.12	0.12	587.11	0.02	0.00
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	2030	Bore/Drill Rigs	Bore/Drill Rigs	2	8.5	83	0.50	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.33	0.02	0.00
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	2030	Excavators	Excavators	4	8.5	36	0.38	Diesel	Fleet Avg	0.33	3.30	4.19	0.01	-	0.07	0.07	-	0.06	0.06	588.07	0.02	0.00
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	2030	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	2030	Pumps	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.25	2.97	0.01	-	0.17	0.17	-	0.15	0.15	568.35	0.02	0.00
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	2031	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	2031	Excavators	Excavators	6	8.5	36	0.38	Diesel	Fleet Avg	0.31	3.28	4.17	0.01	-	0.06	0.06	-	0.05	0.05	588.07	0.02	0.00
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	2031	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	2031	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	2031	Aerial Lifts	Aerial Lifts	2	8.5	46	0.31	Diesel	Fleet Avg	0.15	2.85	3.07	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Pumps	Pumps	3	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Aerial Lifts	Aerial Lifts	3	8.5	46	0.31	Diesel	Fleet Avg	0.14	2.85	3.06	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Air Compressors	Air Compressors	2	8.5	37	0.48	Diesel	Fleet Avg	0.39	3.25	4.68	0.01	-	0.03	0.03	-	0.03	0.03	568.34	0.02	0.00
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Welders	Welders	2	8.5	46	0.45	Diesel	Fleet Avg	0.34	3.19	4.35	0.01	-	0.03	0.03	-	0.03	0.03	568.31	0.02	0.00
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Generator Sets	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.31	0.02	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 6

OFFROAD EQUIPMENT (ONSITE)[1]

																	Daily Emissions (lb/day)													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	4	8.5	84	0.37	Diesel	Tier 4 Final	0.12	0.61	8.62	0.01	-	0.02	0.02	-	0.02	0.02	1233.0	0.05	0.01
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.18	1.70	2.17	0.00	-	0.04	0.04	-	0.04	0.04	301.5	0.01	0.00
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Concrete/Industrial Saws	Concrete/Industrial Saws	2	8.5	33	0.73	Diesel	Fleet Avg	0.32	2.97	3.84	0.01	-	0.04	0.04	-	0.04	0.04	518.7	0.02	0.00
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Skid Steer Loaders	Skid Steer Loaders	2	8.5	71	0.37	Diesel	Tier 4 Final	0.09	2.70	3.64	0.00	-	0.01	0.01	-	0.01	0.01	520.8	0.02	0.00
Metro G Line Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Crawler Tractors	Crawler Tractors	2	8.5	87	0.43	Diesel	Tier 4 Final	0.07	0.36	5.19	0.01	-	0.01	0.01	-	0.01	0.01	741.7	0.03	0.01
Metro G Line Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.18	1.70	2.17	0.00	-	0.04	0.04	-	0.04	0.04	301.5	0.01	0.00
Metro G Line Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.18	1.70	2.17	0.00	-	0.04	0.04	-	0.04	0.04	301.5	0.01	0.00
Metro G Line Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Pumps	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.17	1.30	0.91	0.00	-	0.05	0.05	-	0.05	0.05	173.4	0.01	0.00
Metro G Line Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Rollers	Rollers	1	8.5	36	0.38	Diesel	Fleet Avg	0.13	0.89	1.05	0.00	-	0.03	0.03	-	0.03	0.03	150.5	0.01	0.00
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Bore/Drill Rigs	Bore/Drill Rigs	2	8.5	83	0.50	Diesel	Tier 4 Final	0.08	0.40	5.75	0.01	-	0.02	0.02	-	0.02	0.02	814.0	0.03	0.01
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Excavators	Excavators	4	8.5	36	0.38	Diesel	Fleet Avg	0.37	3.40	4.33	0.01	-	0.08	0.08	-	0.07	0.07	603.0	0.02	0.00
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.20	1.04	10.37	0.02	-	0.04	0.04	-	0.04	0.04	2104.6	0.09	0.02
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Pumps	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.17	1.30	0.91	0.00	-	0.05	0.05	-	0.05	0.05	173.4	0.01	0.00
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.20	1.04	10.37	0.02	-	0.04	0.04	-	0.04	0.04	2104.6	0.09	0.02
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Excavators	Excavators	6	8.5	36	0.38	Diesel	Fleet Avg	0.50	5.07	6.44	0.01	-	0.10	0.10	-	0.09	0.09	904.5	0.04	0.01
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.06	0.30	4.31	0.01	-	0.01	0.01	-	0.01	0.01	616.5	0.03	0.01
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Aerial Lifts	Aerial Lifts	2	8.5	46	0.31	Diesel	Fleet Avg	0.08	1.53	1.64	0.00	-	0.01	0.01	-	0.01	0.01	313.7	0.01	0.00
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.20	1.04	10.37	0.02	-	0.04	0.04	-	0.04	0.04	2104.6	0.09	0.02
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Pumps	Pumps	3	8.5	11	0.74	Diesel	Fleet Avg	0.25	1.94	1.36	0.00	-	0.07	0.07	-	0.07	0.07	260.1	0.01	0.00
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Aerial Lifts	Aerial Lifts	3	8.5	46	0.31	Diesel	Fleet Avg	0.12	2.29	2.45	0.00	-	0.01	0.01	-	0.01	0.01	470.5	0.02	0.00
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Air Compressors	Air Compressors	2	8.5	37	0.48	Diesel	Fleet Avg	0.26	2.17	3.12	0.00	-	0.02	0.02	-	0.02	0.02	378.3	0.02	0.00
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Welders	Welders	2	8.5	46	0.45	Diesel	Fleet Avg	0.27	2.47	3.38	0.01	-	0.02	0.02	-	0.02	0.02	440.9	0.02	0.00
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Generator Sets	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.06	0.30	4.31	0.01	-	0.01	0.01	-	0.01	0.01	616.5	0.03	0.01
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Skid Steer Loaders	Skid Steer Loaders	1	8.5	71	0.37	Diesel	Tier 4 Final	0.04	1.35	1.82	0.00	-	0.00	0.00	-	0.00	0.00	260.4	0.01	0.00
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Pavers	Pavers	2	8.5	81	0.42	Diesel	Tier 4 Final	0.06	0.33	4.72	0.01	-	0.01	0.01	-	0.01	0.01	670.5	0.03	0.01
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Surfacing Equipment	Surfacing Equipment	1	8.5	399	0.30	Diesel	Tier 4 Final	0.11	0.58	5.83	0.01	-	0.02	0.02	-	0.02	0.02	1182.7	0.05	0.01
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Sweepers/Scrubbers	Sweepers/Scrubbers	1	8.5	36	0.46	Diesel	Fleet Avg	0.11	1.04	1.40	0.00	-	0.02	0.02	-	0.02	0.02	182.1	0.01	0.00
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Rollers	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.18	1.68	2.00	0.00	-	0.04	0.04	-	0.03	0.03	301.0	0.01	0.00
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Aerial Lifts	Aerial Lifts	4	8.5	46	0.31	Diesel	Fleet Avg	0.15	3.04	3.26	0.01	-	0.02	0.02	-	0.01	0.01	627.3	0.03	0.01
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Generator Sets	Generator Sets	1	8.5	14	0.74	Diesel	Fleet Avg	0.10	0.82	0.55	0.00	-	0.03	0.03	-	0.03	0.03	110.3	0.00	0.00
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Forklifts	Forklifts	2	8.5	82	0.20	Diesel	Tier 4 Final	0.03	0.16	2.27	0.00	-	0.01	0.01	-	0.01	0.01	324.0	0.01	0.00
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Air Compressors	Air Compressors	2	8.5	37	0.48	Diesel	Fleet Avg	0.25	2.14	3.11	0.00	-	0.02	0.02	-	0.01	0.01	378.3	0.02	0.00
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete/Industrial Saws	Concrete/Industrial Saws	2	8.5	33	0.73	Diesel	Fleet Avg	0.32	2.97	3.84	0.01	-	0.04	0.04	-	0.04	0.04	518.7	0.02	0.00
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Cranes	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.18	1.70	2.17	0.00	-	0.04	0.04	-	0.04	0.04	301.5	0.01	0.00
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Trenchers	Trenchers	1	8.5	40	0.50	Diesel	Fleet Avg	0.16	1.25	1.48	0.00	-	0.04	0.04	-	0.03	0.03	220.4	0.01	0.00
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Rollers	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.25	1.78	2.10	0.00	-	0.06	0.06	-	0.06	0.06	301.0	0.01	0.00
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Cement and Mortar Mixers	Cement and Mortar Mixers	1	8.5	10	0.56	Diesel	Fleet Avg	0.06	0.44	0.34	0.00	-	0.02	0.02	-	0.02	0.02	59.8	0.00	0.00
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Pavers	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.03	0.17	2.36	0.00	-	0.01	0.01	-	0.01	0.01	335.2	0.01	0.00
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Surfacing Equipment	Surfacing Equipment	1	8.5	399	0.30	Diesel	Tier 4 Final	0.11	0.58	5.83	0.01	-	0.02	0.02	-	0.02	0.02	1182.7	0.05	0.01
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Sweepers/Scrubbers	Sweepers/Scrubbers	1	8.5	36	0.46	Diesel	Fleet Avg	0.16	1.11	1.46	0.00	-	0.04	0.04	-	0.03	0.03	182.1	0.01	0.00
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	4	8.5	84	0.37	Diesel	Tier 4 Final	0.12	0.61	8.62	0.01	-	0.02	0.02	-	0.02	0.02	1233.0	0.05	0.01
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.18	1.70	2.17	0.00	-	0.04	0.04	-	0.04	0.04	301.5	0.01	0.00
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	2029	Concrete/Industrial Saws	Concrete/Industrial Saws	2	8.5	33	0.73	Diesel	Fleet Avg	0.32	2.97	3.84	0.01	-	0.04	0.04	-	0.04	0.04	518.7	0.02	0.00
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	2029	Skid Steer Loaders	Skid Steer Loaders	2	8.5	71	0.37	Diesel	Tier 4 Final	0.09	2.70	3.64	0.00	-	0.01	0.01	-	0.01	0.01	520.8	0.02	0.00
Ventura Blvd Station-Grading	4/1/2029	7/31/2029	6	104	10	2029	Crawler Tractors	Crawler Tractors	2	8.5	87	0.43	Diesel	Tier 4 Final	0.07	0.36	5.19	0.01	-	0.01	0.01	-	0.01	0.01	741.7	0.03	0.01
Ventura Blvd Station-Grading	4/1/2029	7/31/2029	6	104	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.18	1.70	2.17	0.00	-	0.04	0.04	-	0.04	0.04	301.5	0.01	0.00
Ventura Blvd Station-Drainage	4/1/2029	6/30/2030	6	390	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.18	1.70	2.17	0.00	-	0.04	0.04	-	0.04	0.04	301.5	0.01	0.00
Ventura Blvd Station-Drainage	4/1/2029	6/30/2030	6	390	10	2029	Pumps	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.17	1.30	0.91	0.00	-	0.05	0.05	-	0.05	0.05	173.4	0.01	0.00
Ventura Blvd Station-Drainage	4/1/2029	6/30/2030	6	390	10	2029	Rollers	Rollers	1	8.5	36	0.38	Diesel	Fleet Avg	0.13	0.89	1.05	0.00	-	0.03	0.03	-	0.03	0.03	150.5	0.01	0.00
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	2030	Bore/Drill Rigs	Bore/Drill Rigs	2	8.5	83	0.50	Diesel	Tier 4 Final	0.08	0.40	5.75	0.01	-	0.02	0.02	-	0.02	0.02	814.0	0.03	0.01
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	2030	Excavators	Excavators	4	8.5	36	0.38	Diesel	Fleet Avg	0.34	3.38	4.30	0.01	-	0.07	0.07	-	0.06	0.06	603.0	0.02	0.00
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	2030	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.20	1.04	10.37	0.02	-	0.04	0.04	-	0.04	0.04	2104.6	0.09	0.02
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	2030	Pumps	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.17	1.30	0.91	0.00	-	0.05	0.05	-	0.05	0.05	173.4	0.01	0.00
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	2031	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.20	1.04	10.37	0.02	-	0.04	0.04	-	0.04	0.04	2104.6	0.09	0.02
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	2031	Excavators	Excavators	6	8.5	36	0.38	Diesel	Fleet Avg	0.47	5.05	6.41	0.01	-	0.09	0.09	-	0.08	0.08	904.5	0.04	0.01
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	2031	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.06	0.30	4.31	0.01	-	0.01	0.01	-	0.01	0.01	616.5	0.03	0.01
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	2031	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	2031	Aerial Lifts	Aerial Lifts	2	8.5	46	0.31	Diesel	Fleet Avg	0.08	1.53	1.64	0.00	-	0.01	0.01	-	0.01	0.01	313.7	0.01	0.00
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.20	1.04	10.37	0.02	-	0.04	0.04	-	0.04	0.04	2104.6	0.09	0.02
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Pumps	Pumps	3	8.5	11	0.74	Diesel	Fleet Avg	0.25	1.94	1.36	0.00	-	0.07	0.07	-	0.07	0.07	260.1	0.01	0.00
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Aerial Lifts	Aerial Lifts	3	8.5	46	0.31	Diesel	Fleet Avg	0.12	2.29	2.45	0.00	-	0.01	0.01	-	0.01	0.01	470.5	0.02	0.00
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Air Compressors	Air Compressors	2	8.5	37	0.48	Diesel	Fleet Avg	0.26	2.17	3.12	0.00	-	0.02	0.02	-	0.02	0.02	378.3	0.02	0.00
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Welders	Welders	2	8.5	46	0.45	Diesel	Fleet Avg	0.27	2.47	3.38	0.01	-	0.02	0.02	-	0.02	0.02	440.9	0.02	0.00
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Generator Sets	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 6

OFFROAD EQUIPMENT (ONSITE)[1]

																	Total Emissions (tons)											Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	4	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.02	0.34	0.00	-	0.00	0.00	-	0.00	0.00	43.6	0.00	0.00	43.8
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.07	0.08	0.00	-	0.00	0.00	-	0.00	0.00	10.7	0.00	0.00	10.7
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Concrete/Industrial Saws	Concrete/Industrial Saws	2	8.5	33	0.73	Diesel	Fleet Avg	0.01	0.12	0.15	0.00	-	0.00	0.00	-	0.00	0.00	18.4	0.00	0.00	18.4
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Skid Steer Loaders	Skid Steer Loaders	2	8.5	71	0.37	Diesel	Tier 4 Final	0.00	0.11	0.14	0.00	-	0.00	0.00	-	0.00	0.00	18.4	0.00	0.00	18.5
Metro G Line Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Crawler Tractors	Crawler Tractors	2	8.5	87	0.43	Diesel	Tier 4 Final	0.00	0.01	0.20	0.00	-	0.00	0.00	-	0.00	0.00	26.2	0.00	0.00	26.3
Metro G Line Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.07	0.08	0.00	-	0.00	0.00	-	0.00	0.00	10.7	0.00	0.00	10.7
Metro G Line Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.09	0.11	0.00	-	0.00	0.00	-	0.00	0.00	14.2	0.00	0.00	14.3
Metro G Line Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Pumps	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.01	0.07	0.05	0.00	-	0.00	0.00	-	0.00	0.00	8.2	0.00	0.00	8.2
Metro G Line Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Rollers	Rollers	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.05	0.05	0.00	-	0.00	0.00	-	0.00	0.00	7.1	0.00	0.00	7.1
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Bore/Drill Rigs	Bore/Drill Rigs	2	8.5	83	0.50	Diesel	Tier 4 Final	0.01	0.03	0.45	0.00	-	0.00	0.00	-	0.00	0.00	57.6	0.00	0.00	57.8
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Excavators	Excavators	4	8.5	36	0.38	Diesel	Fleet Avg	0.03	0.26	0.34	0.00	-	0.01	0.01	-	0.01	0.01	42.7	0.00	0.00	42.8
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.01	0.03	0.42	0.00	-	0.00	0.00	-	0.00	0.00	53.8	0.00	0.00	54.0
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.02	0.08	0.81	0.00	-	0.00	0.00	-	0.00	0.00	148.9	0.01	0.00	149.4
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Pumps	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.01	0.10	0.07	0.00	-	0.00	0.00	-	0.00	0.00	12.3	0.00	0.00	12.3
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.02	0.12	1.22	0.00	-	0.00	0.00	-	0.00	0.00	225.3	0.01	0.00	226.1
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Excavators	Excavators	6	8.5	36	0.38	Diesel	Fleet Avg	0.06	0.60	0.76	0.00	-	0.01	0.01	-	0.01	0.01	96.8	0.00	0.00	97.2
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.01	0.04	0.51	0.00	-	0.00	0.00	-	0.00	0.00	66.0	0.00	0.00	66.2
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.01	0.04	0.63	0.00	-	0.00	0.00	-	0.00	0.00	81.5	0.00	0.00	81.7
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Aerial Lifts	Aerial Lifts	2	8.5	46	0.31	Diesel	Fleet Avg	0.01	0.18	0.19	0.00	-	0.00	0.00	-	0.00	0.00	33.6	0.00	0.00	33.7
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.09	0.49	4.87	0.01	-	0.02	0.02	-	0.02	0.02	897.3	0.04	0.01	900.4
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Pumps	Pumps	3	8.5	11	0.74	Diesel	Fleet Avg	0.12	0.91	0.64	0.00	-	0.04	0.04	-	0.03	0.03	110.9	0.00	0.00	111.3
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.03	0.18	2.50	0.00	-	0.01	0.01	-	0.01	0.01	324.4	0.01	0.00	325.6
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Aerial Lifts	Aerial Lifts	3	8.5	46	0.31	Diesel	Fleet Avg	0.05	1.07	1.15	0.00	-	0.01	0.01	-	0.01	0.01	200.6	0.01	0.00	201.3
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Air Compressors	Air Compressors	2	8.5	37	0.48	Diesel	Fleet Avg	0.12	1.02	1.46	0.00	-	0.01	0.01	-	0.01	0.01	161.3	0.01	0.00	161.9
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Welders	Welders	2	8.5	46	0.45	Diesel	Fleet Avg	0.12	1.16	1.59	0.00	-	0.01	0.01	-	0.01	0.01	188.0	0.01	0.00	188.6
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Generator Sets	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.10	0.78	0.52	0.00	-	0.03	0.03	-	0.03	0.03	94.1	0.00	0.00	94.4
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.02	0.22	0.00	-	0.00	0.00	-	0.00	0.00	29.1	0.00	0.00	29.2
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Skid Steer Loaders	Skid Steer Loaders	1	8.5	71	0.37	Diesel	Tier 4 Final	0.00	0.07	0.09	0.00	-	0.00	0.00	-	0.00	0.00	12.3	0.00	0.00	12.3
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Pavers	Pavers	2	8.5	81	0.42	Diesel	Tier 4 Final	0.00	0.02	0.25	0.00	-	0.00	0.00	-	0.00	0.00	31.6	0.00	0.00	31.7
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Surfacing Equipment	Surfacing Equipment	1	8.5	399	0.30	Diesel	Tier 4 Final	0.01	0.03	0.30	0.00	-	0.00	0.00	-	0.00	0.00	55.8	0.00	0.00	56.0
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Sweepers/Scrubbers	Sweepers/Scrubbers	1	8.5	36	0.46	Diesel	Fleet Avg	0.01	0.05	0.07	0.00	-	0.00	0.00	-	0.00	0.00	8.6	0.00	0.00	8.6
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Rollers	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.09	0.10	0.00	-	0.00	0.00	-	0.00	0.00	14.2	0.00	0.00	14.2
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Aerial Lifts	Aerial Lifts	4	8.5	46	0.31	Diesel	Fleet Avg	0.02	0.48	0.51	0.00	-	0.00	0.00	-	0.00	0.00	89.3	0.00	0.00	89.7
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Generator Sets	Generator Sets	1	8.5	14	0.74	Diesel	Fleet Avg	0.02	0.13	0.09	0.00	-	0.00	0.00	-	0.00	0.00	15.7	0.00	0.00	15.8
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Forklifts	Forklifts	2	8.5	82	0.20	Diesel	Tier 4 Final	0.00	0.03	0.36	0.00	-	0.00	0.00	-	0.00	0.00	46.1	0.00	0.00	46.3
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Air Compressors	Air Compressors	2	8.5	37	0.48	Diesel	Fleet Avg	0.04	0.34	0.49	0.00	-	0.00	0.00	-	0.00	0.00	53.9	0.00	0.00	54.1
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete/Industrial Saws	Concrete/Industrial Saws	2	8.5	33	0.73	Diesel	Fleet Avg	0.02	0.23	0.30	0.00	-	0.00	0.00	-	0.00	0.00	36.7	0.00	0.00	36.8
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Cranes	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.01	0.04	0.40	0.00	-	0.00	0.00	-	0.00	0.00	74.5	0.00	0.00	74.7
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.13	0.17	0.00	-	0.00	0.00	-	0.00	0.00	21.3	0.00	0.00	21.4
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.01	0.03	0.42	0.00	-	0.00	0.00	-	0.00	0.00	53.8	0.00	0.00	54.0
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Trenchers	Trenchers	1	8.5	40	0.50	Diesel	Fleet Avg	0.01	0.10	0.12	0.00	-	0.00	0.00	-	0.00	0.00	15.6	0.00	0.00	15.7
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Rollers	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.02	0.14	0.16	0.00	-	0.01	0.01	-	0.00	0.00	21.3	0.00	0.00	21.4
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Cement and Mortar Mixers	Cement and Mortar Mixers	1	8.5	10	0.56	Diesel	Fleet Avg	0.00	0.03	0.03	0.00	-	0.00	0.00	-	0.00	0.00	4.2	0.00	0.00	4.2
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Pavers	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.00	0.01	0.18	0.00	-	0.00	0.00	-	0.00	0.00	23.7	0.00	0.00	23.8
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Surfacing Equipment	Surfacing Equipment	1	8.5	399	0.30	Diesel	Tier 4 Final	0.01	0.05	0.45	0.00	-	0.00	0.00	-	0.00	0.00	83.7	0.00	0.00	84.0
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Sweepers/Scrubbers	Sweepers/Scrubbers	1	8.5	36	0.46	Diesel	Fleet Avg	0.01	0.09	0.11	0.00	-	0.00	0.00	-	0.00	0.00	12.9	0.00	0.00	12.9
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	4	8.5	84	0.37	Diesel	Tier 4 Final	0.01	0.03	0.45	0.00	-	0.00	0.00	-	0.00	0.00	58.2	0.00	0.00	58.4
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.09	0.11	0.00	-	0.00	0.00	-	0.00	0.00	14.2	0.00	0.00	14.3
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	2029	Concrete/Industrial Saws	Concrete/Industrial Saws	2	8.5	33	0.73	Diesel	Fleet Avg	0.02	0.15	0.20	0.00	-	0.00	0.00	-	0.00	0.00	24.5	0.00	0.00	24.6
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	2029	Skid Steer Loaders	Skid Steer Loaders	2	8.5	71	0.37	Diesel	Tier 4 Final	0.00	0.14	0.19	0.00	-	0.00	0.00	-	0.00	0.00	24.6	0.00	0.00	24.7
Ventura Blvd Station-Grading	4/1/2029	7/31/2029	6	104	10	2029	Crawler Tractors	Crawler Tractors	2	8.5	87	0.43	Diesel	Tier 4 Final	0.00	0.02	0.27	0.00	-	0.00	0.00	-	0.00	0.00	35.0	0.00	0.00	35.1
Ventura Blvd Station-Grading	4/1/2029	7/31/2029	6	104	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.09	0.11	0.00	-	0.00	0.00	-	0.00	0.00	14.2	0.00	0.00	14.3
Ventura Blvd Station-Drainage	4/1/2029	6/30/2030	6	390	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.04	0.33	0.42	0.00	-	0.01	0.01	-	0.01	0.01	53.3	0.00	0.00	53.5
Ventura Blvd Station-Drainage	4/1/2029	6/30/2030	6	390	10	2029	Pumps	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.03	0.25	0.18	0.00	-	0.01	0.01	-	0.01	0.01	30.7	0.00	0.00	30.8
Ventura Blvd Station-Drainage	4/1/2029	6/30/2030	6	390	10	2029	Rollers	Rollers	1	8.5	36	0.38	Diesel	Fleet Avg	0.02	0.17	0.20	0.00	-	0.01	0.01	-	0.01	0.01	26.6	0.00	0.00	26.7
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	2030	Bore/Drill Rigs	Bore/Drill Rigs	2	8.5	83	0.50	Diesel	Tier 4 Final	0.01	0.03	0.45	0.00	-	0.00	0.00	-	0.00	0.00	58.3	0.00	0.00	58.5
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	2030	Excavators	Excavators	4	8.5	36	0.38	Diesel	Fleet Avg	0.03	0.27	0.34	0.00	-	0.01	0.01	-	0.00	0.00	43.2	0.00	0.00	43.4
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.01	0.03	0.42	0.00	-	0.00	0.00	-	0.00	0.00	54.5	0.00	0.00	54.7
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	2030	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.02	0.08	0.82	0.00	-	0.00	0.00	-	0.00	0.00	150.8	0.01	0.00	151.3
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	2030	Pumps	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.01	0.10	0.07	0.00	-	0.00	0.00	-	0.00	0.00	12.4	0.00	0.00	12.5
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	2031	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.02	0.12	1.21	0.00	-	0.00	0.00	-	0.00	0.00	223.4	0.01	0.00	224.1
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	2031	Excavators	Excavators	6	8.5	36	0.38	Diesel	Fleet Avg	0.06	0.59	0.75	0.00	-	0.01	0.01	-	0.01	0.01	96.0	0.00	0.00	96.3
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	2031	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.01	0.04	0.50	0.00	-	0.00	0.00	-	0.00	0.00	65.4	0.00	0.00	65.7
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	2031	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.01	0.04	0.62	0.00	-	0.00	0.00	-	0.00	0.00	80.8	0.00	0.00	81.0
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	2031	Aerial Lifts	Aerial Lifts	2	8.5	46	0.31	Diesel	Fleet Avg	0.01	0.18	0.19	0.00	-	0.00	0.00	-	0.00	0.00	33.3	0.00	0.00	33.4
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.09	0.49	4.87	0.01	-	0.02	0.02	-	0.02	0.02	897.3	0.04	0.01	900.4
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Pumps	Pumps	3	8.5	11	0.74	Diesel	Fleet Avg	0.12	0.91	0.64	0.00	-	0.04	0.04	-	0.03	0.03	110.9	0.00	0.00	111.3
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.03	0.18	2.50	0.00	-	0.01	0.01	-	0.01	0.01	324.4	0.01	0.00	325.6
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Aerial Lifts	Aerial Lifts	3	8.5	46	0.31	Diesel	Fleet Avg	0.05	1.07	1.15	0.00	-	0.01	0.01	-	0.01	0.01	200.6	0.01	0.00	201.3
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Air Compressors	Air Compressors	2	8.5	37	0.48	Diesel	Fleet Avg	0.12	1.02	1.46	0.00	-	0.01	0.01	-	0.01	0.01	161.3	0.01	0.00	161.9
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Welders	Welders	2	8.5	46	0.45	Diesel	Fleet Avg	0.12	1.16	1.59	0.00	-	0.01	0.01	-	0.01	0.01	188.0	0.01	0.00	188.6
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Generator Sets	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.10	0.78	0.52	0.00	-	0.03	0.03	-	0.03	0.03	94.1	0.00	0.00	94.4

Sepulveda Transit Corridor Project - ALTERNATIVE 6

OFFROAD EQUIPMENT (ONSITE)[1]

																	Emission Factor (g/bhp-hr)[3]														
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O					
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	2036	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00					
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	2036	Skid Steer Loaders	Skid Steer Loaders	1	8.5	71	0.37	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.01	0.02	0.00					
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	2036	Pavers	Pavers	2	8.5	81	0.42	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	525.85	0.02	0.00					
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	2036	Surfacing Equipment	Surfacing Equipment	1	8.5	399	0.30	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.28	0.02	0.00					
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	2036	Sweepers/Scrubbers	Sweepers/Scrubbers	1	8.5	36	0.46	Diesel	Fleet Avg	0.35	3.37	4.53	0.01	-	0.05	0.05	-	0.05	0.05	586.87	0.02	0.00					
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	2036	Rollers	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.34	3.29	3.91	0.01	-	0.07	0.07	-	0.07	0.07	587.11	0.02	0.00					
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Aerial Lifts	Aerial Lifts	4	8.5	46	0.31	Diesel	Fleet Avg	0.14	2.84	3.05	0.01	-	0.02	0.02	-	0.01	0.01	586.90	0.02	0.00					
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Generator Sets	Generator Sets	1	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.32	0.02	0.00					
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Forklifts	Forklifts	2	8.5	82	0.20	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	527.08	0.02	0.00					
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Air Compressors	Air Compressors	2	8.5	37	0.48	Diesel	Fleet Avg	0.38	3.22	4.68	0.01	-	0.02	0.02	-	0.02	0.02	568.38	0.02	0.00					
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Concrete/Industrial Saws	Concrete/Industrial Saws	2	8.5	33	0.73	Diesel	Fleet Avg	0.35	3.29	4.26	0.01	-	0.05	0.05	-	0.04	0.04	574.49	0.02	0.00					
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Cranes	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00					
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00					
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00					
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Trenchers	Trenchers	1	8.5	40	0.50	Diesel	Fleet Avg	0.42	3.32	3.95	0.01	-	0.09	0.09	-	0.09	0.09	588.16	0.02	0.00					
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Rollers	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.49	3.48	4.09	0.01	-	0.13	0.13	-	0.12	0.12	587.11	0.02	0.00					
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Cement and Mortar Mixers	Cement and Mortar Mixers	1	8.5	10	0.56	Diesel	Fleet Avg	0.55	4.20	3.25	0.01	-	0.16	0.16	-	0.15	0.15	570.22	0.02	0.00					
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Pavers	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	525.84	0.02	0.00					
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Surfacing Equipment	Surfacing Equipment	1	8.5	399	0.30	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.28	0.02	0.00					
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Sweepers/Scrubbers	Sweepers/Scrubbers	1	8.5	36	0.46	Diesel	Fleet Avg	0.51	3.56	4.72	0.01	-	0.12	0.12	-	0.11	0.11	586.87	0.02	0.00					
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	4	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00					
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00					
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	2029	Concrete/Industrial Saws	Concrete/Industrial Saws	2	8.5	33	0.73	Diesel	Fleet Avg	0.35	3.29	4.26	0.01	-	0.05	0.05	-	0.04	0.04	574.49	0.02	0.00					
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	2029	Skid Steer Loaders	Skid Steer Loaders	2	8.5	71	0.37	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.01	0.02	0.00					
UCLA Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Crawler Tractors	Crawler Tractors	2	8.5	87	0.43	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.99	0.02	0.00					
UCLA Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00					
UCLA Station-Drainage	4/1/2029	12/31/2029	6	235	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00					
UCLA Station-Drainage	4/1/2029	12/31/2029	6	235	10	2029	Pumps	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.26	2.98	0.01	-	0.17	0.17	-	0.15	0.15	568.32	0.02	0.00					
UCLA Station-Drainage	4/1/2029	12/31/2029	6	235	10	2029	Rollers	Rollers	1	8.5	36	0.38	Diesel	Fleet Avg	0.49	3.48	4.09	0.01	-	0.13	0.13	-	0.12	0.12	587.11	0.02	0.00					
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Bore/Drill Rigs	Bore/Drill Rigs	2	8.5	83	0.50	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.33	0.02	0.00					
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Excavators	Excavators	4	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00					
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00					
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00					
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Pumps	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.26	2.98	0.01	-	0.17	0.17	-	0.15	0.15	568.32	0.02	0.00					
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	2030	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00					
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	2030	Excavators	Excavators	6	8.5	36	0.38	Diesel	Fleet Avg	0.33	3.30	4.19	0.01	-	0.07	0.07	-	0.06	0.06	588.07	0.02	0.00					
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00					
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00					
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	2030	Aerial Lifts	Aerial Lifts	2	8.5	46	0.31	Diesel	Fleet Avg	0.15	2.86	3.07	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00					
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	2034	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00					
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	2034	Pumps	Pumps	3	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.34	0.02	0.00					
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	2034	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00					
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	2034	Aerial Lifts	Aerial Lifts	3	8.5	46	0.31	Diesel	Fleet Avg	0.14	2.85	3.06	0.01	-	0.02	0.02	-	0.01	0.01	586.90	0.02	0.00					
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	2034	Air Compressors	Air Compressors	2	8.5	37	0.48	Diesel	Fleet Avg	0.39	3.23	4.68	0.01	-	0.03	0.03	-	0.02	0.02	568.40	0.02	0.00					
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	2034	Welders	Welders	2	8.5	46	0.45	Diesel	Fleet Avg	0.34	3.17	4.35	0.01	-	0.03	0.03	-	0.02	0.02	568.32	0.02	0.00					
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	2034	Generator Sets	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00					
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	2036	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00					
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	2036	Skid Steer Loaders	Skid Steer Loaders	1	8.5	71	0.37	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.01	0.02	0.00					
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	2036	Pavers	Pavers	2	8.5	81	0.42	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	525.85	0.02	0.00					
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	2036	Surfacing Equipment	Surfacing Equipment	1	8.5	399	0.30	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.28	0.02	0.00					
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	2036	Sweepers/Scrubbers	Sweepers/Scrubbers	1	8.5	36	0.46	Diesel	Fleet Avg	0.35	3.37	4.53	0.01	-	0.05	0.05	-	0.05	0.05	586.87	0.02	0.00					
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	2036	Rollers	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.34	3.29	3.91	0.01	-	0.07	0.07	-	0.07	0.07	587.11	0.02	0.00					
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	2036	Aerial Lifts	Aerial Lifts	4	8.5	46	0.31	Diesel	Fleet Avg	0.14	2.84	3.05	0.01	-	0.01	0.01	-	0.01	0.01	586.90	0.02	0.00					
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	2036	Generator Sets	Generator Sets	1	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.32	0.02	0.00					
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	2036	Forklifts	Forklifts	2	8.5	82	0.20	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	527.08	0.02	0.00					
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	2036	Air Compressors	Air Compressors	2	8.5	37	0.48	Diesel	Fleet Avg	0.38	3.20	4.67	0.01	-	0.02	0.02	-	0.02	0.02	568.38	0.02	0.00					
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete/Industrial Saws	Concrete/Industrial Saws	2	8.5	33	0.73	Diesel	Fleet Avg	0.35	3.29	4.26	0.01	-	0.05	0.05	-	0.04	0.04	574.49	0.02	0.00					
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Cranes	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00					
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00					
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00					
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Trenchers	Trenchers	1	8.5	40	0.50	Diesel	Fleet Avg	0.42	3.32	3.95	0.01	-	0.09	0.09	-	0.09	0.09	588.16	0.02	0.00					
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Rollers	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.49	3.48	4.09	0.01	-	0.13	0.13	-	0.12	0.12	587.11	0.02	0.00					
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Cement and Mortar Mixers	Cement and Mortar Mixers	1	8.5	10	0.56	Diesel	Fleet Avg	0.55	4.20	3.25	0.01	-	0.16	0.16	-	0.15	0.15	570.22	0.02	0.00					
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Pavers	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	525.84	0.02	0.00					
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Surfacing Equipment	Surfacing Equipment	1	8.5	399	0.30	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.28	0.02	0.00					
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Sweepers/Scrubbers	Sweepers/Scrubbers	1	8.5	36	0.46	Diesel	Fleet Avg	0.51	3.56	4.72	0.01	-	0.12	0.12	-	0.11	0.11	586.87	0.02	0.00					
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	4	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00					
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00					
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Concrete/Industrial Saws	Concrete/Industrial Saws	2	8.5	33	0.73	Diesel	Fleet Avg	0.35	3.29	4.26	0.01	-	0.05	0.05	-	0.04	0.04	574.49	0.02	0.00					
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Skid Steer Loaders	Skid Steer Loaders	2	8.5	71	0.37	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.01	0.02	0.00					
Wilshire Blvd (Metro D Line) Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Crawler Tractors	Crawler Tractors	2	8.5	87	0.43	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.99	0.02	0.00					
Wilshire Blvd (Metro D Line) Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00					

Sepulveda Transit Corridor Project - ALTERNATIVE 6

OFFROAD EQUIPMENT (ONSITE)[1]

																Daily Emissions (lb/day)													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O		
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	2036	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.06	0.30	4.31	0.01	-	0.01	0.01	-	0.01	0.01	616.5	0.03	0.01		
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	2036	Skid Steer Loaders	Skid Steer Loaders	1	8.5	71	0.37	Diesel	Tier 4 Final	0.04	1.35	1.82	0.00	-	0.00	0.00	-	0.00	0.00	260.4	0.01	0.00		
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	2036	Pavers	Pavers	2	8.5	81	0.42	Diesel	Tier 4 Final	0.06	0.33	4.72	0.01	-	0.01	0.01	-	0.01	0.01	670.5	0.03	0.01		
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	2036	Surfacing Equipment	Surfacing Equipment	1	8.5	399	0.30	Diesel	Tier 4 Final	0.11	0.58	5.83	0.01	-	0.02	0.02	-	0.02	0.02	1182.7	0.05	0.01		
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	2036	Sweepers/Scrubbers	Sweepers/Scrubbers	1	8.5	36	0.46	Diesel	Fleet Avg	0.11	1.04	1.40	0.00	-	0.02	0.02	-	0.02	0.02	182.1	0.01	0.00		
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	2036	Rollers	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.18	1.68	2.00	0.00	-	0.04	0.04	-	0.03	0.03	301.0	0.01	0.00		
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Aerial Lifts	Aerial Lifts	4	8.5	46	0.31	Diesel	Fleet Avg	0.15	3.04	3.26	0.01	-	0.02	0.02	-	0.01	0.01	627.3	0.03	0.01		
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Generator Sets	Generator Sets	1	8.5	14	0.74	Diesel	Fleet Avg	0.10	0.82	0.55	0.00	-	0.03	0.03	-	0.03	0.03	110.3	0.00	0.00		
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Forklifts	Forklifts	2	8.5	82	0.20	Diesel	Tier 4 Final	0.03	0.16	2.27	0.00	-	0.01	0.01	-	0.01	0.01	324.0	0.01	0.00		
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Air Compressors	Air Compressors	2	8.5	37	0.48	Diesel	Fleet Avg	0.25	2.14	3.11	0.00	-	0.02	0.02	-	0.01	0.01	378.3	0.02	0.00		
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Concrete/Industrial Saws	Concrete/Industrial Saws	2	8.5	33	0.73	Diesel	Fleet Avg	0.32	2.97	3.84	0.01	-	0.04	0.04	-	0.04	0.04	518.7	0.02	0.00		
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Cranes	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01		
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.18	1.70	2.17	0.00	-	0.04	0.04	-	0.04	0.04	301.5	0.01	0.00		
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01		
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Trenchers	Trenchers	1	8.5	40	0.50	Diesel	Fleet Avg	0.16	1.25	1.48	0.00	-	0.04	0.04	-	0.03	0.03	220.4	0.01	0.00		
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Rollers	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.25	1.78	2.10	0.00	-	0.06	0.06	-	0.06	0.06	301.0	0.01	0.00		
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Cement and Mortar Mixers	Cement and Mortar Mixers	1	8.5	10	0.56	Diesel	Fleet Avg	0.06	0.44	0.34	0.00	-	0.02	0.02	-	0.02	0.02	59.8	0.00	0.00		
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Pavers	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.03	0.17	2.36	0.00	-	0.01	0.01	-	0.01	0.01	335.2	0.01	0.00		
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Surfacing Equipment	Surfacing Equipment	1	8.5	399	0.30	Diesel	Tier 4 Final	0.11	0.58	5.83	0.01	-	0.02	0.02	-	0.02	0.02	1182.7	0.05	0.01		
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Sweepers/Scrubbers	Sweepers/Scrubbers	1	8.5	36	0.46	Diesel	Fleet Avg	0.16	1.11	1.46	0.00	-	0.04	0.04	-	0.03	0.03	182.1	0.01	0.00		
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	4	8.5	84	0.37	Diesel	Tier 4 Final	0.12	0.61	8.62	0.01	-	0.02	0.02	-	0.02	0.02	1233.0	0.05	0.01		
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.18	1.70	2.17	0.00	-	0.04	0.04	-	0.04	0.04	301.5	0.01	0.00		
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	2029	Concrete/Industrial Saws	Concrete/Industrial Saws	2	8.5	33	0.73	Diesel	Fleet Avg	0.32	2.97	3.84	0.01	-	0.04	0.04	-	0.04	0.04	518.7	0.02	0.00		
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	2029	Skid Steer Loaders	Skid Steer Loaders	2	8.5	71	0.37	Diesel	Tier 4 Final	0.09	2.70	3.64	0.00	-	0.01	0.01	-	0.01	0.01	520.8	0.02	0.00		
UCLA Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Crawler Tractors	Crawler Tractors	2	8.5	87	0.43	Diesel	Tier 4 Final	0.07	0.36	5.19	0.01	-	0.01	0.01	-	0.01	0.01	741.7	0.03	0.01		
UCLA Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.18	1.70	2.17	0.00	-	0.04	0.04	-	0.04	0.04	301.5	0.01	0.00		
UCLA Station-Drainage	4/1/2029	12/31/2029	6	235	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.18	1.70	2.17	0.00	-	0.04	0.04	-	0.04	0.04	301.5	0.01	0.00		
UCLA Station-Drainage	4/1/2029	12/31/2029	6	235	10	2029	Pumps	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.17	1.30	0.91	0.00	-	0.05	0.05	-	0.05	0.05	173.4	0.01	0.00		
UCLA Station-Drainage	4/1/2029	12/31/2029	6	235	10	2029	Rollers	Rollers	1	8.5	36	0.38	Diesel	Fleet Avg	0.13	0.89	1.05	0.00	-	0.03	0.03	-	0.03	0.03	150.5	0.01	0.00		
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Bore/Drill Rigs	Bore/Drill Rigs	2	8.5	83	0.50	Diesel	Tier 4 Final	0.08	0.40	5.75	0.01	-	0.02	0.02	-	0.02	0.02	814.0	0.03	0.01		
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Excavators	Excavators	4	8.5	36	0.38	Diesel	Fleet Avg	0.37	3.40	4.33	0.01	-	0.08	0.08	-	0.07	0.07	603.0	0.02	0.00		
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01		
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.20	1.04	10.37	0.02	-	0.04	0.04	-	0.04	0.04	2104.6	0.09	0.02		
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Pumps	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.17	1.30	0.91	0.00	-	0.05	0.05	-	0.05	0.05	173.4	0.01	0.00		
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	2030	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.20	1.04	10.37	0.02	-	0.04	0.04	-	0.04	0.04	2104.6	0.09	0.02		
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	2030	Excavators	Excavators	6	8.5	36	0.38	Diesel	Fleet Avg	0.50	5.07	6.44	0.01	-	0.10	0.10	-	0.09	0.09	904.5	0.04	0.01		
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.06	0.30	4.31	0.01	-	0.01	0.01	-	0.01	0.01	616.5	0.03	0.01		
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01		
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	2030	Aerial Lifts	Aerial Lifts	2	8.5	46	0.31	Diesel	Fleet Avg	0.08	1.53	1.64	0.00	-	0.01	0.01	-	0.01	0.01	313.7	0.01	0.00		
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	2034	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.20	1.04	10.37	0.02	-	0.04	0.04	-	0.04	0.04	2104.6	0.09	0.02		
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	2034	Pumps	Pumps	3	8.5	11	0.74	Diesel	Fleet Avg	0.25	1.93	1.36	0.00	-	0.07	0.07	-	0.07	0.07	260.1	0.01	0.00		
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	2034	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01		
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	2034	Aerial Lifts	Aerial Lifts	3	8.5	46	0.31	Diesel	Fleet Avg	0.11	2.28	2.45	0.00	-	0.01	0.01	-	0.01	0.01	470.5	0.02	0.00		
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	2034	Air Compressors	Air Compressors	2	8.5	37	0.48	Diesel	Fleet Avg	0.26	2.15	3.11	0.00	-	0.02	0.02	-	0.02	0.02	378.3	0.02	0.00		
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	2034	Welders	Welders	2	8.5	46	0.45	Diesel	Fleet Avg	0.26	2.46	3.38	0.01	-	0.02	0.02	-	0.02	0.02	440.9	0.02	0.00		
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	2034	Generator Sets	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00		
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	2036	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.06	0.30	4.31	0.01	-	0.01	0.01	-	0.01	0.01	616.5	0.03	0.01		
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	2036	Skid Steer Loaders	Skid Steer Loaders	1	8.5	71	0.37	Diesel	Tier 4 Final	0.04	1.35	1.82	0.00	-	0.00	0.00	-	0.00	0.00	260.4	0.01	0.00		
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	2036	Pavers	Pavers	2	8.5	81	0.42	Diesel	Tier 4 Final	0.06	0.33	4.72	0.01	-	0.01	0.01	-	0.01	0.01	670.5	0.03	0.01		
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	2036	Surfacing Equipment	Surfacing Equipment	1	8.5	399	0.30	Diesel	Tier 4 Final	0.11	0.58	5.83	0.01	-	0.02	0.02	-	0.02	0.02	1182.7	0.05	0.01		
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	2036	Sweepers/Scrubbers	Sweepers/Scrubbers	1	8.5	36	0.46	Diesel	Fleet Avg	0.11	1.04	1.40	0.00	-	0.02	0.02	-	0.02	0.02	182.1	0.01	0.00		
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	2036	Rollers	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.18	1.68	2.00	0.00	-	0.04	0.04	-	0.03	0.03	301.0	0.01	0.00		
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	2036	Aerial Lifts	Aerial Lifts	4	8.5	46	0.31	Diesel	Fleet Avg	0.15	3.04	3.26	0.01	-	0.02	0.02	-	0.01	0.01	627.3	0.03	0.01		
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	2036	Generator Sets	Generator Sets	1	8.5	14	0.74	Diesel	Fleet Avg	0.10	0.82	0.55	0.00	-	0.03	0.03	-	0.03	0.03	110.3	0.00	0.00		
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	2036	Forklifts	Forklifts	2	8.5	82	0.20	Diesel	Tier 4 Final	0.03	0.16	2.27	0.00	-	0.01	0.01	-	0.01	0.01	324.0	0.01	0.00		
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	2036	Air Compressors	Air Compressors	2	8.5	37	0.48	Diesel	Fleet Avg	0.25	2.13	3.11	0.00	-	0.01	0.01	-	0.01	0.01	378.3	0.02	0.00		
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete/Industrial Saws	Concrete/Industrial Saws	2	8.5	33	0.73	Diesel	Fleet Avg	0.32	2.97	3.84	0.01	-	0.04	0.04	-	0.04	0.04	518.7	0.02	0.00		
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Cranes	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01		
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.18	1.70	2.17	0.00	-	0.04	0.04	-	0.04	0.04	301.5	0.01	0.00		
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01		
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Trenchers	Trenchers	1	8.5	40	0.50	Diesel	Fleet Avg	0.16	1.25	1.48	0.00	-	0.04	0.04	-	0.03	0.03	220.4	0.01	0.00		
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Rollers	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.25	1.78	2.10	0.00	-	0.06	0.06	-	0.06	0.06	301.0	0.01	0.00		
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Cement and Mortar Mixers	Cement and Mortar Mixers	1	8.5	10	0.56	Diesel	Fleet Avg	0.06	0.44	0.34	0.00	-	0.02	0.02	-	0.02	0.02	59.8	0.00	0.00		
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Pavers	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.03	0.17	2.36	0.00	-	0.01	0.01	-	0.01	0.01	335.2	0.01	0.00		
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Surfacing Equipment	Surfacing Equipment	1	8.5	399	0.30	Diesel	Tier 4 Final	0.11	0.58	5.83	0.01	-	0.02	0.02	-	0.02	0.02	1182.7	0.05	0.01		
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Sweepers/Scrubbers	Sweepers/Scrubbers	1	8.5	36	0.46	Diesel	Fleet Avg	0.16	1.11	1.46	0.00	-	0.04	0.04	-	0.03	0.03	182.1	0.01	0.00		
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	4	8.5	84	0.37	Diesel	Tier 4 Final	0.12	0.61	8.62	0.01	-	0.02	0.02	-	0.02	0.02	1233.0	0.05	0.01		
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.18	1.70	2.17	0.00	-	0.04	0.04	-	0.04	0.04	301.5	0.01	0.00		
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Concrete/Industrial Saws	Concrete/Industrial Saws	2	8.5	33	0.73	Diesel	Fleet Avg	0.32	2.97	3.84	0.01	-	0.04	0.04	-	0.04	0.04	518.7	0.02	0.00		
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Skid Steer Loaders	Skid Steer Loaders	2	8.5	71	0.37	Diesel	Tier 4 Final	0.09	2.70	3.64	0.00	-	0.01	0.01	-	0.01	0.01	520.8	0.02	0.00		
Wilshire Blvd (Metro D Line) Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Crawler Tractors	Crawler Tractors	2	8.5	87	0.43	Diesel	Tier 4 Final	0.07	0.36	5.19	0.01	-	0.01	0.01	-	0.01	0.01	741.7	0.03	0.01		
Wilshire Blvd (Metro D Line) Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.18	1.70	2.17	0.00	-	0.04	0.04	-	0.04	0.04	301.5	0.01	0.00		

Sepulveda Transit Corridor Project - ALTERNATIVE 6

OFFROAD EQUIPMENT (ONSITE)[1]

																	Total Emissions (tons)											Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	2036	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.02	0.22	0.00	-	0.00	0.00	-	0.00	0.00	29.1	0.00	0.00	29.2
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	2036	Skid Steer Loaders	Skid Steer Loaders	1	8.5	71	0.37	Diesel	Tier 4 Final	0.00	0.07	0.09	0.00	-	0.00	0.00	-	0.00	0.00	12.3	0.00	0.00	12.3
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	2036	Pavers	Pavers	2	8.5	81	0.42	Diesel	Tier 4 Final	0.00	0.02	0.25	0.00	-	0.00	0.00	-	0.00	0.00	31.6	0.00	0.00	31.7
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	2036	Surfacing Equipment	Surfacing Equipment	1	8.5	399	0.30	Diesel	Tier 4 Final	0.01	0.03	0.30	0.00	-	0.00	0.00	-	0.00	0.00	55.8	0.00	0.00	56.0
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	2036	Sweepers/Scrubbers	Sweepers/Scrubbers	1	8.5	36	0.46	Diesel	Fleet Avg	0.01	0.05	0.07	0.00	-	0.00	0.00	-	0.00	0.00	8.6	0.00	0.00	8.6
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	2036	Rollers	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.09	0.10	0.00	-	0.00	0.00	-	0.00	0.00	14.2	0.00	0.00	14.2
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Aerial Lifts	Aerial Lifts	4	8.5	46	0.31	Diesel	Fleet Avg	0.02	0.48	0.51	0.00	-	0.00	0.00	-	0.00	0.00	89.3	0.00	0.00	89.7
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Generator Sets	Generator Sets	1	8.5	14	0.74	Diesel	Fleet Avg	0.02	0.13	0.09	0.00	-	0.00	0.00	-	0.00	0.00	15.7	0.00	0.00	15.8
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Forklifts	Forklifts	2	8.5	82	0.20	Diesel	Tier 4 Final	0.00	0.03	0.36	0.00	-	0.00	0.00	-	0.00	0.00	46.1	0.00	0.00	46.3
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Air Compressors	Air Compressors	2	8.5	37	0.48	Diesel	Fleet Avg	0.04	0.34	0.49	0.00	-	0.00	0.00	-	0.00	0.00	53.9	0.00	0.00	54.1
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Concrete/Industrial Saws	Concrete/Industrial Saws	2	8.5	33	0.73	Diesel	Fleet Avg	0.08	0.70	0.90	0.00	-	0.01	0.01	-	0.01	0.01	110.3	0.00	0.00	110.7
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Cranes	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.02	0.12	1.22	0.00	-	0.00	0.00	-	0.00	0.00	223.9	0.01	0.00	224.6
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.04	0.40	0.51	0.00	-	0.01	0.01	-	0.01	0.01	64.1	0.00	0.00	64.4
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.02	0.09	1.25	0.00	-	0.00	0.00	-	0.00	0.00	161.9	0.01	0.00	162.4
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Trenchers	Trenchers	1	8.5	40	0.50	Diesel	Fleet Avg	0.04	0.29	0.35	0.00	-	0.01	0.01	-	0.01	0.01	46.9	0.00	0.00	47.1
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Rollers	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.06	0.42	0.49	0.00	-	0.02	0.02	-	0.01	0.01	64.0	0.00	0.00	64.3
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Cement and Mortar Mixers	Cement and Mortar Mixers	1	8.5	10	0.56	Diesel	Fleet Avg	0.01	0.10	0.08	0.00	-	0.00	0.00	-	0.00	0.00	12.7	0.00	0.00	12.8
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Pavers	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.01	0.04	0.55	0.00	-	0.00	0.00	-	0.00	0.00	71.3	0.00	0.00	71.6
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Surfacing Equipment	Surfacing Equipment	1	8.5	399	0.30	Diesel	Tier 4 Final	0.03	0.14	1.37	0.00	-	0.01	0.01	-	0.01	0.01	251.6	0.01	0.00	252.5
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Sweepers/Scrubbers	Sweepers/Scrubbers	1	8.5	36	0.46	Diesel	Fleet Avg	0.04	0.26	0.34	0.00	-	0.01	0.01	-	0.01	0.01	38.7	0.00	0.00	38.9
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	4	8.5	84	0.37	Diesel	Tier 4 Final	0.03	0.14	2.02	0.00	-	0.01	0.01	-	0.01	0.01	262.3	0.01	0.00	263.2
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.04	0.40	0.51	0.00	-	0.01	0.01	-	0.01	0.01	64.1	0.00	0.00	64.4
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	2029	Concrete/Industrial Saws	Concrete/Industrial Saws	2	8.5	33	0.73	Diesel	Fleet Avg	0.08	0.70	0.90	0.00	-	0.01	0.01	-	0.01	0.01	110.3	0.00	0.00	110.7
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	2029	Skid Steer Loaders	Skid Steer Loaders	2	8.5	71	0.37	Diesel	Tier 4 Final	0.02	0.63	0.85	0.00	-	0.00	0.00	-	0.00	0.00	110.8	0.00	0.00	111.2
UCLA Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Crawler Tractors	Crawler Tractors	2	8.5	87	0.43	Diesel	Tier 4 Final	0.00	0.01	0.20	0.00	-	0.00	0.00	-	0.00	0.00	26.2	0.00	0.00	26.3
UCLA Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.07	0.08	0.00	-	0.00	0.00	-	0.00	0.00	10.7	0.00	0.00	10.7
UCLA Station-Drainage	4/1/2029	12/31/2029	6	235	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.02	0.20	0.25	0.00	-	0.00	0.00	-	0.00	0.00	32.1	0.00	0.00	32.2
UCLA Station-Drainage	4/1/2029	12/31/2029	6	235	10	2029	Pumps	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.02	0.15	0.11	0.00	-	0.01	0.01	-	0.01	0.01	18.5	0.00	0.00	18.5
UCLA Station-Drainage	4/1/2029	12/31/2029	6	235	10	2029	Rollers	Rollers	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.10	0.12	0.00	-	0.00	0.00	-	0.00	0.00	16.0	0.00	0.00	16.1
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Bore/Drill Rigs	Bore/Drill Rigs	2	8.5	83	0.50	Diesel	Tier 4 Final	0.01	0.03	0.45	0.00	-	0.00	0.00	-	0.00	0.00	57.6	0.00	0.00	57.8
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Excavators	Excavators	4	8.5	36	0.38	Diesel	Fleet Avg	0.03	0.26	0.34	0.00	-	0.01	0.01	-	0.01	0.01	42.7	0.00	0.00	42.8
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.01	0.03	0.42	0.00	-	0.00	0.00	-	0.00	0.00	53.8	0.00	0.00	54.0
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.02	0.08	0.81	0.00	-	0.00	0.00	-	0.00	0.00	148.9	0.01	0.00	149.4
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Pumps	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.01	0.10	0.07	0.00	-	0.00	0.00	-	0.00	0.00	12.3	0.00	0.00	12.3
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	2030	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.03	0.16	1.62	0.00	-	0.01	0.01	-	0.01	0.01	298.8	0.01	0.00	299.8
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	2030	Excavators	Excavators	6	8.5	36	0.38	Diesel	Fleet Avg	0.08	0.79	1.01	0.00	-	0.02	0.02	-	0.01	0.01	128.4	0.01	0.00	128.9
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.01	0.05	0.67	0.00	-	0.00	0.00	-	0.00	0.00	87.5	0.00	0.00	87.8
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.01	0.06	0.83	0.00	-	0.00	0.00	-	0.00	0.00	108.0	0.00	0.00	108.4
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	2030	Aerial Lifts	Aerial Lifts	2	8.5	46	0.31	Diesel	Fleet Avg	0.01	0.24	0.26	0.00	-	0.00	0.00	-	0.00	0.00	44.5	0.00	0.00	44.7
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	2034	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.09	0.49	4.87	0.01	-	0.02	0.02	-	0.02	0.02	896.4	0.04	0.01	899.5
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	2034	Pumps	Pumps	3	8.5	11	0.74	Diesel	Fleet Avg	0.12	0.91	0.64	0.00	-	0.03	0.03	-	0.03	0.03	110.8	0.00	0.00	111.2
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	2034	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.03	0.18	2.50	0.00	-	0.01	0.01	-	0.01	0.01	324.1	0.01	0.00	325.2
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	2034	Aerial Lifts	Aerial Lifts	3	8.5	46	0.31	Diesel	Fleet Avg	0.05	1.07	1.15	0.00	-	0.01	0.01	-	0.01	0.01	200.4	0.01	0.00	201.1
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	2034	Air Compressors	Air Compressors	2	8.5	37	0.48	Diesel	Fleet Avg	0.12	1.01	1.46	0.00	-	0.01	0.01	-	0.01	0.01	161.1	0.01	0.00	161.7
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	2034	Welders	Welders	2	8.5	46	0.45	Diesel	Fleet Avg	0.12	1.15	1.59	0.00	-	0.01	0.01	-	0.01	0.01	187.8	0.01	0.00	188.4
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	2034	Generator Sets	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.10	0.77	0.52	0.00	-	0.03	0.03	-	0.03	0.03	94.0	0.00	0.00	94.3
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	2036	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.02	0.34	0.00	-	0.00	0.00	-	0.00	0.00	43.6	0.00	0.00	43.8
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	2036	Skid Steer Loaders	Skid Steer Loaders	1	8.5	71	0.37	Diesel	Tier 4 Final	0.00	0.11	0.14	0.00	-	0.00	0.00	-	0.00	0.00	18.4	0.00	0.00	18.5
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	2036	Pavers	Pavers	2	8.5	81	0.42	Diesel	Tier 4 Final	0.00	0.03	0.37	0.00	-	0.00	0.00	-	0.00	0.00	47.4	0.00	0.00	47.6
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	2036	Surfacing Equipment	Surfacing Equipment	1	8.5	399	0.30	Diesel	Tier 4 Final	0.01	0.05	0.45	0.00	-	0.00	0.00	-	0.00	0.00	83.7	0.00	0.00	84.0
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	2036	Sweepers/Scrubbers	Sweepers/Scrubbers	1	8.5	36	0.46	Diesel	Fleet Avg	0.01	0.08	0.11	0.00	-	0.00	0.00	-	0.00	0.00	12.9	0.00	0.00	12.9
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	2036	Rollers	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.13	0.16	0.00	-	0.00	0.00	-	0.00	0.00	21.3	0.00	0.00	21.4
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	2036	Aerial Lifts	Aerial Lifts	4	8.5	46	0.31	Diesel	Fleet Avg	0.02	0.48	0.51	0.00	-	0.00	0.00	-	0.00	0.00	89.1	0.00	0.00	89.4
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	2036	Generator Sets	Generator Sets	1	8.5	14	0.74	Diesel	Fleet Avg	0.02	0.13	0.09	0.00	-	0.00	0.00	-	0.00	0.00	15.7	0.00	0.00	15.7
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	2036	Forklifts	Forklifts	2	8.5	82	0.20	Diesel	Tier 4 Final	0.00	0.03	0.36	0.00	-	0.00	0.00	-	0.00	0.00	46.0	0.00	0.00	46.2
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	2036	Air Compressors	Air Compressors	2	8.5	37	0.48	Diesel	Fleet Avg	0.04	0.33	0.49	0.00	-	0.00	0.00	-	0.00	0.00	53.7	0.00	0.00	53.9
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete/Industrial Saws	Concrete/Industrial Saws	2	8.5	33	0.73	Diesel	Fleet Avg	0.02	0.23	0.30	0.00	-	0.00	0.00	-	0.00	0.00	36.7	0.00	0.00	36.8
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Cranes	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.01	0.04	0.40	0.00	-	0.00	0.00	-	0.00	0.00	74.5	0.00	0.00	74.7
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.13	0.17	0.00	-	0.00	0.00	-	0.00	0.00	21.3	0.00	0.00	21.4
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.01	0.03	0.42	0.00	-	0.00	0.00	-	0.00	0.00	53.8	0.00	0.00	54.0
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Trenchers	Trenchers	1	8.5	40	0.50	Diesel	Fleet Avg	0.01	0.10	0.12	0.00	-	0.00	0.00	-	0.00	0.00	15.6	0.00	0.00	15.7
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Rollers	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.02	0.14	0.16	0.00	-	0.01	0.01	-	0.00	0.00	21.3	0.00	0.00	21.4
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Cement and Mortar Mixers	Cement and Mortar Mixers	1	8.5	10	0.56	Diesel	Fleet Avg	0.00	0.03	0.03	0.00	-	0.00	0.00	-	0.00	0.00	4.2	0.00	0.00	4.2
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Pavers	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.00	0.01	0.18	0.00	-	0.00	0.00	-	0.00	0.00	23.7	0.00	0.00	23.8
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Surfacing Equipment	Surfacing Equipment	1	8.5	399	0.30	Diesel	Tier 4 Final	0.01	0.05	0.45	0.00	-	0.00	0.00	-	0.00	0.00	83.7	0.00	0.00	84.0
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Sweepers/Scrubbers	Sweepers/Scrubbers	1	8.5	36	0.46	Diesel	Fleet Avg	0.01	0.09	0.11	0.00	-	0.00	0.00	-	0.00	0.00	12.9	0.00	0.00	12.9
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	4	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.02	0.34	0.00	-	0.00	0.00	-	0.00	0.00	43.6	0.00	0.00	43.8
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.07	0.08	0.00	-	0.00	0.00	-	0.00	0.00	10.7	0.00	0.00	10.7
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Concrete/Industrial Saws	Concrete/Industrial Saws	2	8.5	33	0.73	Diesel	Fleet Avg	0.01	0.12	0.15	0.00	-	0.00	0.00	-	0.00	0.00	18.4	0.00	0.00	18.4
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Skid Steer Loaders	Skid Steer Loaders	2	8.5	71	0.37	Diesel	Tier 4 Final	0.00	0.11	0.14	0.00	-	0.00	0.00	-	0.00	0.00	18.4	0.00	0.00	18.5
Wilshire Blvd (Metro D Line) Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Crawler Tractors	Crawler Tractors	2	8.5	87	0.43	Diesel	Tier 4 Final	0.00	0.01	0.20	0.00	-	0.00	0.00	-	0.00	0.00	26.2	0.00	0.00	26.3
Wilshire Blvd (Metro D Line) Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.07	0.08	0.00	-	0.00	0.00	-	0.00	0.00	10.7	0.00	0.00	10.7

Sepulveda Transit Corridor Project - ALTERNATIVE 6

OFFROAD EQUIPMENT (ONSITE)[1]

Emission Factor (g/bhp-hr)[3] (applies to the columns ROG through N_2O)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Wilshire Blvd (Metro D Line) Station-Drainage	4/1/2029	3/31/2030	6	312	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Wilshire Blvd (Metro D Line) Station-Drainage	4/1/2029	3/31/2030	6	312	10	2029	Pumps	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.26	2.98	0.01	-	0.17	0.17	-	0.15	0.15	568.32	0.02	0.00
Wilshire Blvd (Metro D Line) Station-Drainage	4/1/2029	3/31/2030	6	312	10	2029	Rollers	Rollers	1	8.5	36	0.38	Diesel	Fleet Avg	0.49	3.48	4.09	0.01	-	0.13	0.13	-	0.12	0.12	587.11	0.02	0.00
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	2029	Bore/Drill Rigs	Bore/Drill Rigs	2	8.5	83	0.50	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.33	0.02	0.00
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	2029	Excavators	Excavators	4	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	2029	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	2029	Pumps	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.26	2.98	0.01	-	0.17	0.17	-	0.15	0.15	568.32	0.02	0.00
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	2030	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	2030	Excavators	Excavators	6	8.5	36	0.38	Diesel	Fleet Avg	0.33	3.30	4.19	0.01	-	0.07	0.07	-	0.06	0.06	588.07	0.02	0.00
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	2030	Aerial Lifts	Aerial Lifts	2	8.5	46	0.31	Diesel	Fleet Avg	0.15	2.86	3.07	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Pumps	Pumps	3	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Aerial Lifts	Aerial Lifts	3	8.5	46	0.31	Diesel	Fleet Avg	0.14	2.85	3.06	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Air Compressors	Air Compressors	2	8.5	37	0.48	Diesel	Fleet Avg	0.39	3.25	4.68	0.01	-	0.03	0.03	-	0.03	0.03	568.34	0.02	0.00
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Welders	Welders	2	8.5	46	0.45	Diesel	Fleet Avg	0.34	3.19	4.35	0.01	-	0.03	0.03	-	0.03	0.03	568.31	0.02	0.00
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Generator Sets	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.31	0.02	0.00
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Skid Steer Loaders	Skid Steer Loaders	1	8.5	71	0.37	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.01	0.02	0.00
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Pavers	Pavers	2	8.5	81	0.42	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	525.85	0.02	0.00
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Surfacing Equipment	Surfacing Equipment	1	8.5	399	0.30	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.28	0.02	0.00
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Sweepers/Scrubbers	Sweepers/Scrubbers	1	8.5	36	0.46	Diesel	Fleet Avg	0.35	3.37	4.53	0.01	-	0.05	0.05	-	0.05	0.05	586.87	0.02	0.00
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Rollers	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.34	3.29	3.91	0.01	-	0.07	0.07	-	0.07	0.07	587.11	0.02	0.00
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Aerial Lifts	Aerial Lifts	4	8.5	46	0.31	Diesel	Fleet Avg	0.14	2.84	3.05	0.01	-	0.02	0.02	-	0.01	0.01	586.90	0.02	0.00
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Generator Sets	Generator Sets	1	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.32	0.02	0.00
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Forklifts	Forklifts	2	8.5	82	0.20	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	527.08	0.02	0.00
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Air Compressors	Air Compressors	2	8.5	37	0.48	Diesel	Fleet Avg	0.38	3.22	4.68	0.01	-	0.02	0.02	-	0.02	0.02	568.38	0.02	0.00
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete/Industrial Saws	Concrete/Industrial Saws	2	8.5	33	0.73	Diesel	Fleet Avg	0.35	3.29	4.26	0.01	-	0.05	0.05	-	0.04	0.04	574.49	0.02	0.00
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Cranes	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Trenchers	Trenchers	1	8.5	40	0.50	Diesel	Fleet Avg	0.42	3.32	3.95	0.01	-	0.09	0.09	-	0.09	0.09	588.16	0.02	0.00
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Rollers	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.49	3.48	4.09	0.01	-	0.13	0.13	-	0.12	0.12	587.11	0.02	0.00
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Cement and Mortar Mixers	Cement and Mortar Mixers	1	8.5	10	0.56	Diesel	Fleet Avg	0.55	4.20	3.25	0.01	-	0.16	0.16	-	0.15	0.15	570.22	0.02	0.00
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Pavers	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	525.84	0.02	0.00
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Surfacing Equipment	Surfacing Equipment	1	8.5	399	0.30	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.28	0.02	0.00
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Sweepers/Scrubbers	Sweepers/Scrubbers	1	8.5	36	0.46	Diesel	Fleet Avg	0.51	3.56	4.72	0.01	-	0.12	0.12	-	0.11	0.11	586.87	0.02	0.00
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	4	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	2029	Concrete/Industrial Saws	Concrete/Industrial Saws	2	8.5	33	0.73	Diesel	Fleet Avg	0.35	3.29	4.26	0.01	-	0.05	0.05	-	0.04	0.04	574.49	0.02	0.00
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	2029	Skid Steer Loaders	Skid Steer Loaders	2	8.5	71	0.37	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.01	0.02	0.00
Santa Monica Blvd Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Crawler Tractors	Crawler Tractors	2	8.5	87	0.43	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.99	0.02	0.00
Santa Monica Blvd Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Santa Monica Blvd Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Santa Monica Blvd Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Pumps	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.26	2.98	0.01	-	0.17	0.17	-	0.15	0.15	568.32	0.02	0.00
Santa Monica Blvd Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Rollers	Rollers	1	8.5	36	0.38	Diesel	Fleet Avg	0.49	3.48	4.09	0.01	-	0.13	0.13	-	0.12	0.12	587.11	0.02	0.00
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Bore/Drill Rigs	Bore/Drill Rigs	2	8.5	83	0.50	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.33	0.02	0.00
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Excavators	Excavators	4	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Pumps	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.26	2.98	0.01	-	0.17	0.17	-	0.15	0.15	568.32	0.02	0.00
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Excavators	Excavators	6	8.5	36	0.38	Diesel	Fleet Avg	0.33	3.30	4.19	0.01	-	0.07	0.07	-	0.06	0.06	588.07	0.02	0.00
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Aerial Lifts	Aerial Lifts	2	8.5	46	0.31	Diesel	Fleet Avg	0.15	2.86	3.07	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Pumps	Pumps	3	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Aerial Lifts	Aerial Lifts	3	8.5	46	0.31	Diesel	Fleet Avg	0.14	2.85	3.06	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Air Compressors	Air Compressors	2	8.5	37	0.48	Diesel	Fleet Avg	0.39	3.25	4.68	0.01	-	0.03	0.03	-	0.03	0.03	568.34	0.02	0.00
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Welders	Welders	2	8.5	46	0.45	Diesel	Fleet Avg	0.34	3.19	4.35	0.01	-	0.03	0.03	-	0.03	0.03	568.31	0.02	0.00
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Generator Sets	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.31	0.02	0.00
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Skid Steer Loaders	Skid Steer Loaders	1	8.5	71	0.37	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.01	0.02	0.00
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Pavers	Pavers	2	8.5	81	0.42	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	525.85	0.02	0.00
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Surfacing Equipment	Surfacing Equipment	1	8.5	399	0.30	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.28	0.02	0.00
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Sweepers/Scrubbers	Sweepers/Scrubbers	1	8.5	36	0.46	Diesel	Fleet Avg	0.35	3.37	4.53	0.01	-	0.05	0.05	-	0.05	0.05	586.87	0.02	0.00
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Rollers	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.34	3.29	3.91	0.01	-	0.07	0.07	-	0.07	0.07	587.11	0.02	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 6

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
															Daily Emissions (lb/day)												
Wilshire Blvd (Metro D Line) Station-Drainage	4/1/2029	3/31/2030	6	312	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.18	1.70	2.17	0.00	-	0.04	0.04	-	0.04	0.04	301.5	0.01	0.00
Wilshire Blvd (Metro D Line) Station-Drainage	4/1/2029	3/31/2030	6	312	10	2029	Pumps	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.17	1.30	0.91	0.00	-	0.05	0.05	-	0.05	0.05	173.4	0.01	0.00
Wilshire Blvd (Metro D Line) Station-Drainage	4/1/2029	3/31/2030	6	312	10	2029	Rollers	Rollers	1	8.5	36	0.38	Diesel	Fleet Avg	0.13	0.89	1.05	0.00	-	0.03	0.03	-	0.03	0.03	150.5	0.01	0.00
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	2029	Bore/Drill Rigs	Bore/Drill Rigs	2	8.5	83	0.50	Diesel	Tier 4 Final	0.08	0.40	5.75	0.01	-	0.02	0.02	-	0.02	0.02	814.0	0.03	0.01
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	2029	Excavators	Excavators	4	8.5	36	0.38	Diesel	Fleet Avg	0.37	3.40	4.33	0.01	-	0.08	0.08	-	0.07	0.07	603.0	0.02	0.00
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	2029	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.20	1.04	10.37	0.02	-	0.04	0.04	-	0.04	0.04	2104.6	0.09	0.02
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	2029	Pumps	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.17	1.30	0.91	0.00	-	0.05	0.05	-	0.05	0.05	173.4	0.01	0.00
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	2030	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.20	1.04	10.37	0.02	-	0.04	0.04	-	0.04	0.04	2104.6	0.09	0.02
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	2030	Excavators	Excavators	6	8.5	36	0.38	Diesel	Fleet Avg	0.50	5.07	6.44	0.01	-	0.10	0.10	-	0.09	0.09	904.5	0.04	0.01
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.06	0.30	4.31	0.01	-	0.01	0.01	-	0.01	0.01	616.5	0.03	0.01
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	2030	Aerial Lifts	Aerial Lifts	2	8.5	46	0.31	Diesel	Fleet Avg	0.08	1.53	1.64	0.00	-	0.01	0.01	-	0.01	0.01	313.7	0.01	0.00
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.20	1.04	10.37	0.02	-	0.04	0.04	-	0.04	0.04	2104.6	0.09	0.02
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Pumps	Pumps	3	8.5	11	0.74	Diesel	Fleet Avg	0.25	1.94	1.36	0.00	-	0.07	0.07	-	0.07	0.07	260.1	0.01	0.00
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Aerial Lifts	Aerial Lifts	3	8.5	46	0.31	Diesel	Fleet Avg	0.12	2.29	2.45	0.00	-	0.01	0.01	-	0.01	0.01	470.5	0.02	0.00
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Air Compressors	Air Compressors	2	8.5	37	0.48	Diesel	Fleet Avg	0.26	2.17	3.12	0.00	-	0.02	0.02	-	0.02	0.02	378.3	0.02	0.00
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Welders	Welders	2	8.5	46	0.45	Diesel	Fleet Avg	0.27	2.47	3.38	0.01	-	0.02	0.02	-	0.02	0.02	440.9	0.02	0.00
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Generator Sets	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.06	0.30	4.31	0.01	-	0.01	0.01	-	0.01	0.01	616.5	0.03	0.01
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Skid Steer Loaders	Skid Steer Loaders	1	8.5	71	0.37	Diesel	Tier 4 Final	0.04	1.35	1.82	0.00	-	0.00	0.00	-	0.00	0.00	260.4	0.01	0.00
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Pavers	Pavers	2	8.5	81	0.42	Diesel	Tier 4 Final	0.06	0.33	4.72	0.01	-	0.01	0.01	-	0.01	0.01	670.5	0.03	0.01
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Surfacing Equipment	Surfacing Equipment	1	8.5	399	0.30	Diesel	Tier 4 Final	0.11	0.58	5.83	0.01	-	0.02	0.02	-	0.02	0.02	1182.7	0.05	0.01
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Sweepers/Scrubbers	Sweepers/Scrubbers	1	8.5	36	0.46	Diesel	Fleet Avg	0.11	1.04	1.40	0.00	-	0.02	0.02	-	0.02	0.02	182.1	0.01	0.00
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Rollers	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.18	1.68	2.00	0.00	-	0.04	0.04	-	0.03	0.03	301.0	0.01	0.00
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Aerial Lifts	Aerial Lifts	4	8.5	46	0.31	Diesel	Fleet Avg	0.15	3.04	3.26	0.01	-	0.02	0.02	-	0.01	0.01	627.3	0.03	0.01
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Generator Sets	Generator Sets	1	8.5	14	0.74	Diesel	Fleet Avg	0.10	0.82	0.55	0.00	-	0.03	0.03	-	0.03	0.03	110.3	0.00	0.00
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Forklifts	Forklifts	2	8.5	82	0.20	Diesel	Tier 4 Final	0.03	0.16	2.27	0.00	-	0.01	0.01	-	0.01	0.01	324.0	0.01	0.00
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Air Compressors	Air Compressors	2	8.5	37	0.48	Diesel	Fleet Avg	0.25	2.14	3.11	0.00	-	0.02	0.02	-	0.01	0.01	378.3	0.02	0.00
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete/Industrial Saws	Concrete/Industrial Saws	2	8.5	33	0.73	Diesel	Fleet Avg	0.32	2.97	3.84	0.01	-	0.04	0.04	-	0.04	0.04	518.7	0.02	0.00
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Cranes	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.18	1.70	2.17	0.00	-	0.04	0.04	-	0.04	0.04	301.5	0.01	0.00
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Trenchers	Trenchers	1	8.5	40	0.50	Diesel	Fleet Avg	0.16	1.25	1.48	0.00	-	0.04	0.04	-	0.03	0.03	220.4	0.01	0.00
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Rollers	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.25	1.78	2.10	0.00	-	0.06	0.06	-	0.06	0.06	301.0	0.01	0.00
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Cement and Mortar Mixers	Cement and Mortar Mixers	1	8.5	10	0.56	Diesel	Fleet Avg	0.06	0.44	0.34	0.00	-	0.02	0.02	-	0.02	0.02	59.8	0.00	0.00
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Pavers	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.03	0.17	2.36	0.00	-	0.01	0.01	-	0.01	0.01	335.2	0.01	0.00
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Surfacing Equipment	Surfacing Equipment	1	8.5	399	0.30	Diesel	Tier 4 Final	0.11	0.58	5.83	0.01	-	0.02	0.02	-	0.02	0.02	1182.7	0.05	0.01
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Sweepers/Scrubbers	Sweepers/Scrubbers	1	8.5	36	0.46	Diesel	Fleet Avg	0.16	1.11	1.46	0.00	-	0.04	0.04	-	0.03	0.03	182.1	0.01	0.00
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	4	8.5	84	0.37	Diesel	Tier 4 Final	0.12	0.61	8.62	0.01	-	0.02	0.02	-	0.02	0.02	1233.0	0.05	0.01
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.18	1.70	2.17	0.00	-	0.04	0.04	-	0.04	0.04	301.5	0.01	0.00
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	2029	Concrete/Industrial Saws	Concrete/Industrial Saws	2	8.5	33	0.73	Diesel	Fleet Avg	0.32	2.97	3.84	0.01	-	0.04	0.04	-	0.04	0.04	518.7	0.02	0.00
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	2029	Skid Steer Loaders	Skid Steer Loaders	2	8.5	71	0.37	Diesel	Tier 4 Final	0.09	2.70	3.64	0.00	-	0.01	0.01	-	0.01	0.01	520.8	0.02	0.00
Santa Monica Blvd Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Crawler Tractors	Crawler Tractors	2	8.5	87	0.43	Diesel	Tier 4 Final	0.07	0.36	5.19	0.01	-	0.01	0.01	-	0.01	0.01	741.7	0.03	0.01
Santa Monica Blvd Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.18	1.70	2.17	0.00	-	0.04	0.04	-	0.04	0.04	301.5	0.01	0.00
Santa Monica Blvd Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.18	1.70	2.17	0.00	-	0.04	0.04	-	0.04	0.04	301.5	0.01	0.00
Santa Monica Blvd Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Pumps	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.17	1.30	0.91	0.00	-	0.05	0.05	-	0.05	0.05	173.4	0.01	0.00
Santa Monica Blvd Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Rollers	Rollers	1	8.5	36	0.38	Diesel	Fleet Avg	0.13	0.89	1.05	0.00	-	0.03	0.03	-	0.03	0.03	150.5	0.01	0.00
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Bore/Drill Rigs	Bore/Drill Rigs	2	8.5	83	0.50	Diesel	Tier 4 Final	0.08	0.40	5.75	0.01	-	0.02	0.02	-	0.02	0.02	814.0	0.03	0.01
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Excavators	Excavators	4	8.5	36	0.38	Diesel	Fleet Avg	0.37	3.40	4.33	0.01	-	0.08	0.08	-	0.07	0.07	603.0	0.02	0.00
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.20	1.04	10.37	0.02	-	0.04	0.04	-	0.04	0.04	2104.6	0.09	0.02
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Pumps	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.17	1.30	0.91	0.00	-	0.05	0.05	-	0.05	0.05	173.4	0.01	0.00
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.20	1.04	10.37	0.02	-	0.04	0.04	-	0.04	0.04	2104.6	0.09	0.02
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Excavators	Excavators	6	8.5	36	0.38	Diesel	Fleet Avg	0.50	5.07	6.44	0.01	-	0.10	0.10	-	0.09	0.09	904.5	0.04	0.01
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.06	0.30	4.31	0.01	-	0.01	0.01	-	0.01	0.01	616.5	0.03	0.01
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Aerial Lifts	Aerial Lifts	2	8.5	46	0.31	Diesel	Fleet Avg	0.08	1.53	1.64	0.00	-	0.01	0.01	-	0.01	0.01	313.7	0.01	0.00
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.20	1.04	10.37	0.02	-	0.04	0.04	-	0.04	0.04	2104.6	0.09	0.02
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Pumps	Pumps	3	8.5	11	0.74	Diesel	Fleet Avg	0.25	1.94	1.36	0.00	-	0.07	0.07	-	0.07	0.07	260.1	0.01	0.00
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Aerial Lifts	Aerial Lifts	3	8.5	46	0.31	Diesel	Fleet Avg	0.12	2.29	2.45	0.00	-	0.01	0.01	-	0.01	0.01	470.5	0.02	0.00
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Air Compressors	Air Compressors	2	8.5	37	0.48	Diesel	Fleet Avg	0.26	2.17	3.12	0.00	-	0.02	0.02	-	0.02	0.02	378.3	0.02	0.00
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Welders	Welders	2	8.5	46	0.45	Diesel	Fleet Avg	0.27	2.47	3.38	0.01	-	0.02	0.02	-	0.02	0.02	440.9	0.02	0.00
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Generator Sets	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.06	0.30	4.31	0.01	-	0.01	0.01	-	0.01	0.01	616.5	0.03	0.01
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Skid Steer Loaders	Skid Steer Loaders	1	8.5	71	0.37	Diesel	Tier 4 Final	0.04	1.35	1.82	0.00	-	0.00	0.00	-	0.00	0.00	260.4	0.01	0.00
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Pavers	Pavers	2	8.5	81	0.42	Diesel	Tier 4 Final	0.06	0.33	4.72	0.01	-	0.01	0.01	-	0.01	0.01	670.5	0.03	0.01
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Surfacing Equipment	Surfacing Equipment	1	8.5	399	0.30	Diesel	Tier 4 Final	0.11	0.58	5.83	0.01	-	0.02	0.02	-	0.02	0.02	1182.7	0.05	0.01
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Sweepers/Scrubbers	Sweepers/Scrubbers	1	8.5	36	0.46	Diesel	Fleet Avg	0.11	1.04	1.40	0.00	-	0.02	0.02	-	0.02	0.02	182.1	0.01	0.00
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Rollers	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.18	1.68	2.00	0.00	-	0.04	0.04	-	0.03	0.03	301.0	0.01	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 6

OFFROAD EQUIPMENT (ONSITE)[1]

															Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Wilshire Blvd (Metro D Line) Station-Drainage	4/1/2029	3/31/2030	6	312	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.03	0.26	0.34	0.00	-	0.01	0.01	-	0.01	0.01	42.7	0.00	0.00	42.8
Wilshire Blvd (Metro D Line) Station-Drainage	4/1/2029	3/31/2030	6	312	10	2029	Pumps	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.03	0.20	0.14	0.00	-	0.01	0.01	-	0.01	0.01	24.5	0.00	0.00	24.6
Wilshire Blvd (Metro D Line) Station-Drainage	4/1/2029	3/31/2030	6	312	10	2029	Rollers	Rollers	1	8.5	36	0.38	Diesel	Fleet Avg	0.02	0.14	0.16	0.00	-	0.01	0.01	-	0.00	0.00	21.3	0.00	0.00	21.4
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	2029	Bore/Drill Rigs	Bore/Drill Rigs	2	8.5	83	0.50	Diesel	Tier 4 Final	0.01	0.04	0.60	0.00	-	0.00	0.00	-	0.00	0.00	77.2	0.00	0.00	77.4
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	2029	Excavators	Excavators	4	8.5	36	0.38	Diesel	Fleet Avg	0.04	0.35	0.45	0.00	-	0.01	0.01	-	0.01	0.01	57.2	0.00	0.00	57.4
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.01	0.04	0.56	0.00	-	0.00	0.00	-	0.00	0.00	72.1	0.00	0.00	72.4
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	2029	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.02	0.11	1.08	0.00	-	0.00	0.00	-	0.00	0.00	199.5	0.01	0.00	200.2
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	2029	Pumps	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.02	0.14	0.09	0.00	-	0.01	0.01	-	0.00	0.00	16.4	0.00	0.00	16.5
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	2030	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.04	0.20	2.03	0.00	-	0.01	0.01	-	0.01	0.01	373.3	0.02	0.00	374.5
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	2030	Excavators	Excavators	6	8.5	36	0.38	Diesel	Fleet Avg	0.10	0.99	1.26	0.00	-	0.02	0.02	-	0.02	0.02	160.4	0.01	0.00	161.0
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.01	0.06	0.84	0.00	-	0.00	0.00	-	0.00	0.00	109.3	0.00	0.00	109.7
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.01	0.07	1.04	0.00	-	0.00	0.00	-	0.00	0.00	135.0	0.01	0.00	135.4
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	2030	Aerial Lifts	Aerial Lifts	2	8.5	46	0.31	Diesel	Fleet Avg	0.02	0.30	0.32	0.00	-	0.00	0.00	-	0.00	0.00	55.6	0.00	0.00	55.8
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.09	0.49	4.87	0.01	-	0.02	0.02	-	0.02	0.02	897.3	0.04	0.01	900.4
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Pumps	Pumps	3	8.5	11	0.74	Diesel	Fleet Avg	0.12	0.91	0.64	0.00	-	0.04	0.04	-	0.03	0.03	110.9	0.00	0.00	111.3
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.03	0.18	2.50	0.00	-	0.01	0.01	-	0.01	0.01	324.4	0.01	0.00	325.6
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Aerial Lifts	Aerial Lifts	3	8.5	46	0.31	Diesel	Fleet Avg	0.05	1.07	1.15	0.00	-	0.01	0.01	-	0.01	0.01	200.6	0.01	0.00	201.3
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Air Compressors	Air Compressors	2	8.5	37	0.48	Diesel	Fleet Avg	0.12	1.02	1.46	0.00	-	0.01	0.01	-	0.01	0.01	161.3	0.01	0.00	161.9
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Welders	Welders	2	8.5	46	0.45	Diesel	Fleet Avg	0.12	1.16	1.59	0.00	-	0.01	0.01	-	0.01	0.01	188.0	0.01	0.00	188.6
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Generator Sets	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.10	0.78	0.52	0.00	-	0.03	0.03	-	0.03	0.03	94.1	0.00	0.00	94.4
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.02	0.22	0.00	-	0.00	0.00	-	0.00	0.00	29.1	0.00	0.00	29.2
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Skid Steer Loaders	Skid Steer Loaders	1	8.5	71	0.37	Diesel	Tier 4 Final	0.00	0.07	0.09	0.00	-	0.00	0.00	-	0.00	0.00	12.3	0.00	0.00	12.3
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Pavers	Pavers	2	8.5	81	0.42	Diesel	Tier 4 Final	0.00	0.02	0.25	0.00	-	0.00	0.00	-	0.00	0.00	31.6	0.00	0.00	31.7
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Surfacing Equipment	Surfacing Equipment	1	8.5	399	0.30	Diesel	Tier 4 Final	0.01	0.03	0.30	0.00	-	0.00	0.00	-	0.00	0.00	55.8	0.00	0.00	56.0
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Sweepers/Scrubbers	Sweepers/Scrubbers	1	8.5	36	0.46	Diesel	Fleet Avg	0.01	0.05	0.07	0.00	-	0.00	0.00	-	0.00	0.00	8.6	0.00	0.00	8.6
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Rollers	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.09	0.10	0.00	-	0.00	0.00	-	0.00	0.00	14.2	0.00	0.00	14.2
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Aerial Lifts	Aerial Lifts	4	8.5	46	0.31	Diesel	Fleet Avg	0.02	0.48	0.51	0.00	-	0.00	0.00	-	0.00	0.00	89.3	0.00	0.00	89.7
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Generator Sets	Generator Sets	1	8.5	14	0.74	Diesel	Fleet Avg	0.02	0.13	0.09	0.00	-	0.00	0.00	-	0.00	0.00	15.7	0.00	0.00	15.8
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Forklifts	Forklifts	2	8.5	82	0.20	Diesel	Tier 4 Final	0.00	0.03	0.36	0.00	-	0.00	0.00	-	0.00	0.00	46.1	0.00	0.00	46.3
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Air Compressors	Air Compressors	2	8.5	37	0.48	Diesel	Fleet Avg	0.04	0.34	0.49	0.00	-	0.00	0.00	-	0.00	0.00	53.9	0.00	0.00	54.1
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete/Industrial Saws	Concrete/Industrial Saws	2	8.5	33	0.73	Diesel	Fleet Avg	0.02	0.23	0.30	0.00	-	0.00	0.00	-	0.00	0.00	36.7	0.00	0.00	36.8
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Cranes	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.01	0.04	0.40	0.00	-	0.00	0.00	-	0.00	0.00	74.5	0.00	0.00	74.7
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.13	0.17	0.00	-	0.00	0.00	-	0.00	0.00	21.3	0.00	0.00	21.4
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.01	0.03	0.42	0.00	-	0.00	0.00	-	0.00	0.00	53.8	0.00	0.00	54.0
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Trenchers	Trenchers	1	8.5	40	0.50	Diesel	Fleet Avg	0.01	0.10	0.12	0.00	-	0.00	0.00	-	0.00	0.00	15.6	0.00	0.00	15.7
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Rollers	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.02	0.14	0.16	0.00	-	0.01	0.01	-	0.00	0.00	21.3	0.00	0.00	21.4
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Cement and Mortar Mixers	Cement and Mortar Mixers	1	8.5	10	0.56	Diesel	Fleet Avg	0.00	0.03	0.03	0.00	-	0.00	0.00	-	0.00	0.00	4.2	0.00	0.00	4.2
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Pavers	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.00	0.01	0.18	0.00	-	0.00	0.00	-	0.00	0.00	23.7	0.00	0.00	23.8
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Surfacing Equipment	Surfacing Equipment	1	8.5	399	0.30	Diesel	Tier 4 Final	0.01	0.05	0.45	0.00	-	0.00	0.00	-	0.00	0.00	83.7	0.00	0.00	84.0
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Sweepers/Scrubbers	Sweepers/Scrubbers	1	8.5	36	0.46	Diesel	Fleet Avg	0.01	0.09	0.11	0.00	-	0.00	0.00	-	0.00	0.00	12.9	0.00	0.00	12.9
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	4	8.5	84	0.37	Diesel	Tier 4 Final	0.01	0.05	0.67	0.00	-	0.00	0.00	-	0.00	0.00	87.2	0.00	0.00	87.5
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.13	0.17	0.00	-	0.00	0.00	-	0.00	0.00	21.3	0.00	0.00	21.4
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	2029	Concrete/Industrial Saws	Concrete/Industrial Saws	2	8.5	33	0.73	Diesel	Fleet Avg	0.02	0.23	0.30	0.00	-	0.00	0.00	-	0.00	0.00	36.7	0.00	0.00	36.8
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	2029	Skid Steer Loaders	Skid Steer Loaders	2	8.5	71	0.37	Diesel	Tier 4 Final	0.01	0.21	0.28	0.00	-	0.00	0.00	-	0.00	0.00	36.9	0.00	0.00	37.0
Santa Monica Blvd Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Crawler Tractors	Crawler Tractors	2	8.5	87	0.43	Diesel	Tier 4 Final	0.00	0.01	0.20	0.00	-	0.00	0.00	-	0.00	0.00	26.2	0.00	0.00	26.3
Santa Monica Blvd Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.07	0.08	0.00	-	0.00	0.00	-	0.00	0.00	10.7	0.00	0.00	10.7
Santa Monica Blvd Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.09	0.11	0.00	-	0.00	0.00	-	0.00	0.00	14.2	0.00	0.00	14.3
Santa Monica Blvd Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Pumps	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.01	0.07	0.05	0.00	-	0.00	0.00	-	0.00	0.00	8.2	0.00	0.00	8.2
Santa Monica Blvd Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Rollers	Rollers	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.05	0.05	0.00	-	0.00	0.00	-	0.00	0.00	7.1	0.00	0.00	7.1
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Bore/Drill Rigs	Bore/Drill Rigs	2	8.5	83	0.50	Diesel	Tier 4 Final	0.01	0.03	0.45	0.00	-	0.00	0.00	-	0.00	0.00	57.6	0.00	0.00	57.8
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Excavators	Excavators	4	8.5	36	0.38	Diesel	Fleet Avg	0.03	0.26	0.34	0.00	-	0.01	0.01	-	0.01	0.01	42.7	0.00	0.00	42.8
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.01	0.03	0.42	0.00	-	0.00	0.00	-	0.00	0.00	53.8	0.00	0.00	54.0
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.02	0.08	0.81	0.00	-	0.00	0.00	-	0.00	0.00	148.9	0.01	0.00	149.4
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Pumps	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.01	0.10	0.07	0.00	-	0.00	0.00	-	0.00	0.00	12.3	0.00	0.00	12.3
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.02	0.12	1.22	0.00	-	0.00	0.00	-	0.00	0.00	225.3	0.01	0.00	226.1
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Excavators	Excavators	6	8.5	36	0.38	Diesel	Fleet Avg	0.06	0.60	0.76	0.00	-	0.01	0.01	-	0.01	0.01	96.8	0.00	0.00	97.2
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.01	0.04	0.51	0.00	-	0.00	0.00	-	0.00	0.00	66.0	0.00	0.00	66.2
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.01	0.04	0.63	0.00	-	0.00	0.00	-	0.00	0.00	81.5	0.00	0.00	81.7
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Aerial Lifts	Aerial Lifts	2	8.5	46	0.31	Diesel	Fleet Avg	0.01	0.18	0.19	0.00	-	0.00	0.00	-	0.00	0.00	33.6	0.00	0.00	33.7
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.09	0.49	4.87	0.01	-	0.02	0.02	-	0.02	0.02	897.3	0.04	0.01	900.4
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Pumps	Pumps	3	8.5	11	0.74	Diesel	Fleet Avg	0.12	0.91	0.64	0.00	-	0.04	0.04	-	0.03	0.03	110.9	0.00	0.00	111.3
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.03	0.18	2.50	0.00	-	0.01	0.01	-	0.01	0.01	324.4	0.01	0.00	325.6
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Aerial Lifts	Aerial Lifts	3	8.5	46	0.31	Diesel	Fleet Avg	0.05	1.07	1.15	0.00	-	0.01	0.01	-	0.01	0.01	200.6	0.01	0.00	201.3
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Air Compressors	Air Compressors	2	8.5	37	0.48	Diesel	Fleet Avg	0.12	1.02	1.46	0.00	-	0.01	0.01	-	0.01	0.01	161.3	0.01	0.00	161.9
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Welders	Welders	2	8.5	46	0.45	Diesel	Fleet Avg	0.12	1.16	1.59	0.00	-	0.01	0.01	-	0.01	0.01	188.0	0.01	0.00	188.6
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Generator Sets	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.10	0.78	0.52	0.00	-	0.03	0.03	-	0.03	0.03	94.1	0.00	0.00	94.4
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.02	0.22	0.00	-	0.00	0.00	-	0.00	0.00	29.1	0.00	0.00	29.2
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Skid Steer Loaders	Skid Steer Loaders	1	8.5	71	0.37	Diesel	Tier 4 Final	0.00	0.07	0.09	0.00	-	0.00	0.00	-	0.00	0.00	12.3	0.00	0.00	12.3
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Pavers	Pavers	2	8.5	81	0.42	Diesel	Tier 4 Final	0.00	0.02	0.25	0.00	-	0.00	0.00	-	0.00	0.00	31.6	0.00	0.00	31.7
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Surfacing Equipment	Surfacing Equipment	1	8.5	399	0.30	Diesel	Tier 4 Final	0.01	0.03	0.30	0.00	-	0.00	0.00	-	0.00	0.00	55.8	0.00	0.00	56.0
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Sweepers/Scrubbers	Sweepers/Scrubbers	1	8.5	36	0.46	Diesel	Fleet Avg	0.01	0.05	0.07	0.00	-	0.00	0.00	-	0.00	0.00	8.6	0.00	0.00	8.6
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Rollers	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.09	0.10	0.00	-	0.00	0.00	-	0.00	0.00	14.2	0.00	0.00	14.2

Sepulveda Transit Corridor Project - ALTERNATIVE 6

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Emission Factor (g/bhp-hr)[3]												
															ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Aerial Lifts	Aerial Lifts	4	8.5	46	0.31	Diesel	Fleet Avg	0.14	2.84	3.05	0.01	-	0.02	0.02	-	0.01	0.01	586.90	0.02	0.00
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Generator Sets	Generator Sets	1	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.32	0.02	0.00
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Forklifts	Forklifts	2	8.5	82	0.20	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	527.08	0.02	0.00
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Air Compressors	Air Compressors	2	8.5	37	0.48	Diesel	Fleet Avg	0.38	3.22	4.68	0.01	-	0.02	0.02	-	0.02	0.02	568.38	0.02	0.00
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete/Industrial Saws	Concrete/Industrial Saws	2	8.5	33	0.73	Diesel	Fleet Avg	0.35	3.29	4.26	0.01	-	0.05	0.05	-	0.04	0.04	574.49	0.02	0.00
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Cranes	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Trenchers	Trenchers	1	8.5	40	0.50	Diesel	Fleet Avg	0.42	3.32	3.95	0.01	-	0.09	0.09	-	0.09	0.09	588.16	0.02	0.00
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Rollers	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.49	3.48	4.09	0.01	-	0.13	0.13	-	0.12	0.12	587.11	0.02	0.00
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Cement and Mortar Mixers	Cement and Mortar Mixers	1	8.5	10	0.56	Diesel	Fleet Avg	0.55	4.20	3.25	0.01	-	0.16	0.16	-	0.15	0.15	570.22	0.02	0.00
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Pavers	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	525.84	0.02	0.00
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Surfacing Equipment	Surfacing Equipment	1	8.5	399	0.30	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.28	0.02	0.00
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Sweepers/Scrubbers	Sweepers/Scrubbers	1	8.5	36	0.46	Diesel	Fleet Avg	0.51	3.56	4.72	0.01	-	0.12	0.12	-	0.11	0.11	586.87	0.02	0.00
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	4	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Concrete/Industrial Saws	Concrete/Industrial Saws	2	8.5	33	0.73	Diesel	Fleet Avg	0.35	3.29	4.26	0.01	-	0.05	0.05	-	0.04	0.04	574.49	0.02	0.00
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Skid Steer Loaders	Skid Steer Loaders	2	8.5	71	0.37	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.01	0.02	0.00
Metro E Line (Expo)/Bundy Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Crawler Tractors	Crawler Tractors	2	8.5	87	0.43	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.99	0.02	0.00
Metro E Line (Expo)/Bundy Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Metro E Line (Expo)/Bundy Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Metro E Line (Expo)/Bundy Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Pumps	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.26	2.98	0.01	-	0.17	0.17	-	0.15	0.15	568.32	0.02	0.00
Metro E Line (Expo)/Bundy Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Rollers	Rollers	1	8.5	36	0.38	Diesel	Fleet Avg	0.49	3.48	4.09	0.01	-	0.13	0.13	-	0.12	0.12	587.11	0.02	0.00
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	2029	Bore/Drill Rigs	Bore/Drill Rigs	2	8.5	83	0.50	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	523.33	0.02	0.00
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	2029	Excavators	Excavators	4	8.5	36	0.38	Diesel	Fleet Avg	0.36	3.31	4.22	0.01	-	0.07	0.07	-	0.07	0.07	588.07	0.02	0.00
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	2029	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	2029	Pumps	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.26	2.98	0.01	-	0.17	0.17	-	0.15	0.15	568.32	0.02	0.00
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Excavators	Excavators	6	8.5	36	0.38	Diesel	Fleet Avg	0.33	3.30	4.19	0.01	-	0.07	0.07	-	0.06	0.06	588.07	0.02	0.00
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Aerial Lifts	Aerial Lifts	2	8.5	46	0.31	Diesel	Fleet Avg	0.15	2.86	3.07	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Pumps	Pumps	3	8.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Aerial Lifts	Aerial Lifts	3	8.5	46	0.31	Diesel	Fleet Avg	0.14	2.85	3.06	0.01	-	0.02	0.02	-	0.02	0.02	586.90	0.02	0.00
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Air Compressors	Air Compressors	2	8.5	37	0.48	Diesel	Fleet Avg	0.39	3.25	4.68	0.01	-	0.03	0.03	-	0.03	0.03	568.34	0.02	0.00
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Welders	Welders	2	8.5	46	0.45	Diesel	Fleet Avg	0.34	3.19	4.35	0.01	-	0.03	0.03	-	0.03	0.03	568.31	0.02	0.00
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Generator Sets	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.31	0.02	0.00
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Skid Steer Loaders	Skid Steer Loaders	1	8.5	71	0.37	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.01	0.02	0.00
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Pavers	Pavers	2	8.5	81	0.42	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	525.85	0.02	0.00
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Surfacing Equipment	Surfacing Equipment	1	8.5	399	0.30	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.28	0.02	0.00
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Sweepers/Scrubbers	Sweepers/Scrubbers	1	8.5	36	0.46	Diesel	Fleet Avg	0.35	3.37	4.53	0.01	-	0.05	0.05	-	0.05	0.05	586.87	0.02	0.00
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Rollers	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.34	3.29	3.91	0.01	-	0.07	0.07	-	0.07	0.07	587.11	0.02	0.00
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Aerial Lifts	Aerial Lifts	4	8.5	46	0.31	Diesel	Fleet Avg	0.14	2.84	3.05	0.01	-	0.02	0.02	-	0.01	0.01	586.90	0.02	0.00
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Generator Sets	Generator Sets	1	8.5	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.32	0.02	0.00
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Forklifts	Forklifts	2	8.5	82	0.20	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	527.08	0.02	0.00
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Air Compressors	Air Compressors	2	8.5	37	0.48	Diesel	Fleet Avg	0.38	3.22	4.68	0.01	-	0.02	0.02	-	0.02	0.02	568.38	0.02	0.00
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	1	6.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Trenchers	Trenchers	1	6.5	40	0.50	Diesel	Fleet Avg	0.39	3.29	3.91	0.01	-	0.08	0.08	-	0.08	0.08	588.16	0.02	0.00
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Rollers	Rollers	1	6.5	36	0.38	Diesel	Fleet Avg	0.44	3.44	4.04	0.01	-	0.11	0.11	-	0.10	0.10	587.11	0.02	0.00
Vanowen St/Van Nuys Blvd TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Pumps	Pumps	1	6.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.33	0.02	0.00
Vanowen St/Van Nuys Blvd TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Skid Steer Loaders	Skid Steer Loaders	1	6.5	71	0.37	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.01	0.02	0.00
Vanowen St/Van Nuys Blvd TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Cranes	Cranes	1	6.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Magnolia TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	1	6.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Magnolia TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Trenchers	Trenchers	1	6.5	40	0.50	Diesel	Fleet Avg	0.39	3.29	3.91	0.01	-	0.08	0.08	-	0.08	0.08	588.16	0.02	0.00
Magnolia TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Rollers	Rollers	1	6.5	36	0.38	Diesel	Fleet Avg	0.44	3.44	4.04	0.01	-	0.11	0.11	-	0.10	0.10	587.11	0.02	0.00
Magnolia TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Pumps	Pumps	1	6.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.33	0.02	0.00
Magnolia TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Skid Steer Loaders	Skid Steer Loaders	1	6.5	71	0.37	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.01	0.02	0.00
Magnolia TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Cranes	Cranes	1	6.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
Mid Mountain Shaft TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	1	6.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
Mid Mountain Shaft TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Trenchers	Trenchers	1	6.5	40	0.50	Diesel	Fleet Avg	0.39	3.29	3.91	0.01	-	0.08	0.08	-	0.08	0.08	588.16	0.02	0.00
Mid Mountain Shaft TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Rollers	Rollers	1	6.5	36	0.38	Diesel	Fleet Avg	0.44	3.44	4.04	0.01	-	0.11	0.11	-	0.10	0.10	587.11	0.02	0.00
Mid Mountain Shaft TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Pumps	Pumps	1	6.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.33	0.02	0.00
Mid Mountain Shaft TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Skid Steer Loaders	Skid Steer Loaders	1	6.5	71	0.37	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.01	0.02	0.00
Mid Mountain Shaft TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Cranes	Cranes	1	6.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	2033	Excavators	Excavators	2	6.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	2033	Cranes	Cranes	1	6.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	2033	Rough Terrain Forklifts	Rough Terrain Forklifts	1	6.5	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	2033	Rollers	Rollers	1	6.5	36	0.38	Diesel	Fleet Avg	0.40	3.39	3.98	0.01	-	0.09	0.09	-	0.09	0.09	587.11	0.02	0.00
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	2033	Pumps	Pumps	2	6.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00
OMSF-Grading	2/1/2033	7/31/2033	5	129	8	2033	Excavators	Excavators	2	6.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00
OMSF-Grading	2/1/2033	7/31/2033	5	129	8	2033	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	6.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00
OMSF-Grading	2/1/2033	7/31/2033	5	129	8	2033	Rollers	Rollers	1	6.5	36	0.38	Diesel	Fleet Avg	0.40	3.39	3.98	0.01	-	0.09	0.09	-	0.09	0.09	587.11	0.02	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 6

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Daily Emissions (lb/day) ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Aerial Lifts	Aerial Lifts	4	8.5	46	0.31	Diesel	Fleet Avg	0.15	3.04	3.26	0.01	-	0.02	0.02	-	0.01	0.01	627.3	0.03	0.01
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Generator Sets	Generator Sets	1	8.5	14	0.74	Diesel	Fleet Avg	0.10	0.82	0.55	0.00	-	0.03	0.03	-	0.03	0.03	110.3	0.00	0.00
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Forklifts	Forklifts	2	8.5	82	0.20	Diesel	Tier 4 Final	0.03	0.16	2.27	0.00	-	0.01	0.01	-	0.01	0.01	324.0	0.01	0.00
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Air Compressors	Air Compressors	2	8.5	37	0.48	Diesel	Fleet Avg	0.25	2.14	3.11	0.00	-	0.02	0.02	-	0.01	0.01	378.3	0.02	0.00
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete/Industrial Saws	Concrete/Industrial Saws	2	8.5	33	0.73	Diesel	Fleet Avg	0.32	2.97	3.84	0.01	-	0.04	0.04	-	0.04	0.04	518.7	0.02	0.00
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Cranes	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.52	5.19	0.01	-	0.02	0.02	-	0.02	0.02	1052.3	0.04	0.01
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.18	1.70	2.17	0.00	-	0.04	0.04	-	0.04	0.04	301.5	0.01	0.00
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Trenchers	Trenchers	1	8.5	40	0.50	Diesel	Fleet Avg	0.16	1.25	1.48	0.00	-	0.04	0.04	-	0.03	0.03	220.4	0.01	0.00
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Rollers	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.25	1.78	2.10	0.00	-	0.06	0.06	-	0.06	0.06	301.0	0.01	0.00
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Cement and Mortar Mixers	Cement and Mortar Mixers	1	8.5	10	0.56	Diesel	Fleet Avg	0.06	0.44	0.34	0.00	-	0.02	0.02	-	0.02	0.02	59.8	0.00	0.00
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Pavers	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.03	0.17	2.36	0.00	-	0.01	0.01	-	0.01	0.01	335.2	0.01	0.00
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Surfacing Equipment	Surfacing Equipment	1	8.5	399	0.30	Diesel	Tier 4 Final	0.11	0.58	5.83	0.01	-	0.02	0.02	-	0.02	0.02	1182.7	0.05	0.01
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Sweepers/Scrubbers	Sweepers/Scrubbers	1	8.5	36	0.46	Diesel	Fleet Avg	0.16	1.11	1.46	0.00	-	0.04	0.04	-	0.03	0.03	182.1	0.01	0.00
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	4	8.5	84	0.37	Diesel	Tier 4 Final	0.12	0.61	8.62	0.01	-	0.02	0.02	-	0.02	0.02	1233.0	0.05	0.01
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.18	1.70	2.17	0.00	-	0.04	0.04	-	0.04	0.04	301.5	0.01	0.00
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Concrete/Industrial Saws	Concrete/Industrial Saws	2	8.5	33	0.73	Diesel	Fleet Avg	0.32	2.97	3.84	0.01	-	0.04	0.04	-	0.04	0.04	518.7	0.02	0.00
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Skid Steer Loaders	Skid Steer Loaders	2	8.5	71	0.37	Diesel	Tier 4 Final	0.09	2.70	3.64	0.00	-	0.01	0.01	-	0.01	0.01	520.8	0.02	0.00
Metro E Line (Expo)/Bundy Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Crawler Tractors	Crawler Tractors	2	8.5	87	0.43	Diesel	Tier 4 Final	0.07	0.36	5.19	0.01	-	0.01	0.01	-	0.01	0.01	741.7	0.03	0.01
Metro E Line (Expo)/Bundy Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.18	1.70	2.17	0.00	-	0.04	0.04	-	0.04	0.04	301.5	0.01	0.00
Metro E Line (Expo)/Bundy Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.18	1.70	2.17	0.00	-	0.04	0.04	-	0.04	0.04	301.5	0.01	0.00
Metro E Line (Expo)/Bundy Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Pumps	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.17	1.30	0.91	0.00	-	0.05	0.05	-	0.05	0.05	173.4	0.01	0.00
Metro E Line (Expo)/Bundy Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Rollers	Rollers	1	8.5	36	0.38	Diesel	Fleet Avg	0.13	0.89	1.05	0.00	-	0.03	0.03	-	0.03	0.03	150.5	0.01	0.00
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	2029	Bore/Drill Rigs	Bore/Drill Rigs	2	8.5	83	0.50	Diesel	Tier 4 Final	0.08	0.40	5.75	0.01	-	0.02	0.02	-	0.02	0.02	814.0	0.03	0.01
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	2029	Excavators	Excavators	4	8.5	36	0.38	Diesel	Fleet Avg	0.37	3.40	4.33	0.01	-	0.08	0.08	-	0.07	0.07	603.0	0.02	0.00
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	2029	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.20	1.04	10.37	0.02	-	0.04	0.04	-	0.04	0.04	2104.6	0.09	0.02
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	2029	Pumps	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.17	1.30	0.91	0.00	-	0.05	0.05	-	0.05	0.05	173.4	0.01	0.00
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.20	1.04	10.37	0.02	-	0.04	0.04	-	0.04	0.04	2104.6	0.09	0.02
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Excavators	Excavators	6	8.5	36	0.38	Diesel	Fleet Avg	0.50	5.07	6.44	0.01	-	0.10	0.10	-	0.09	0.09	904.5	0.04	0.01
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.06	0.30	4.31	0.01	-	0.01	0.01	-	0.01	0.01	616.5	0.03	0.01
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Aerial Lifts	Aerial Lifts	2	8.5	46	0.31	Diesel	Fleet Avg	0.08	1.53	1.64	0.00	-	0.01	0.01	-	0.01	0.01	313.7	0.01	0.00
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.20	1.04	10.37	0.02	-	0.04	0.04	-	0.04	0.04	2104.6	0.09	0.02
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Pumps	Pumps	3	8.5	11	0.74	Diesel	Fleet Avg	0.25	1.94	1.36	0.00	-	0.07	0.07	-	0.07	0.07	260.1	0.01	0.00
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Aerial Lifts	Aerial Lifts	3	8.5	46	0.31	Diesel	Fleet Avg	0.12	2.29	2.45	0.00	-	0.01	0.01	-	0.01	0.01	470.5	0.02	0.00
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Air Compressors	Air Compressors	2	8.5	37	0.48	Diesel	Fleet Avg	0.26	2.17	3.12	0.00	-	0.02	0.02	-	0.02	0.02	378.3	0.02	0.00
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Welders	Welders	2	8.5	46	0.45	Diesel	Fleet Avg	0.27	2.47	3.38	0.01	-	0.02	0.02	-	0.02	0.02	440.9	0.02	0.00
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Generator Sets	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.21	1.65	1.10	0.00	-	0.06	0.06	-	0.06	0.06	220.7	0.01	0.00
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.06	0.30	4.31	0.01	-	0.01	0.01	-	0.01	0.01	616.5	0.03	0.01
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Skid Steer Loaders	Skid Steer Loaders	1	8.5	71	0.37	Diesel	Tier 4 Final	0.04	1.35	1.82	0.00	-	0.00	0.00	-	0.00	0.00	260.4	0.01	0.00
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Pavers	Pavers	2	8.5	81	0.42	Diesel	Tier 4 Final	0.06	0.33	4.72	0.01	-	0.01	0.01	-	0.01	0.01	670.5	0.03	0.01
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Surfacing Equipment	Surfacing Equipment	1	8.5	399	0.30	Diesel	Tier 4 Final	0.11	0.58	5.83	0.01	-	0.02	0.02	-	0.02	0.02	1182.7	0.05	0.01
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Sweepers/Scrubbers	Sweepers/Scrubbers	1	8.5	36	0.46	Diesel	Fleet Avg	0.11	1.04	1.40	0.00	-	0.02	0.02	-	0.02	0.02	182.1	0.01	0.00
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Rollers	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.18	1.68	2.00	0.00	-	0.04	0.04	-	0.03	0.03	301.0	0.01	0.00
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Aerial Lifts	Aerial Lifts	4	8.5	46	0.31	Diesel	Fleet Avg	0.15	3.04	3.26	0.01	-	0.02	0.02	-	0.01	0.01	627.3	0.03	0.01
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Generator Sets	Generator Sets	1	8.5	14	0.74	Diesel	Fleet Avg	0.10	0.82	0.55	0.00	-	0.03	0.03	-	0.03	0.03	110.3	0.00	0.00
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Forklifts	Forklifts	2	8.5	82	0.20	Diesel	Tier 4 Final	0.03	0.16	2.27	0.00	-	0.01	0.01	-	0.01	0.01	324.0	0.01	0.00
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Air Compressors	Air Compressors	2	8.5	37	0.48	Diesel	Fleet Avg	0.25	2.14	3.11	0.00	-	0.02	0.02	-	0.01	0.01	378.3	0.02	0.00
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	1	6.5	84	0.37	Diesel	Tier 4 Final	0.02	0.12	1.65	0.00	-	0.00	0.00	-	0.00	0.00	235.7	0.01	0.00
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Trenchers	Trenchers	1	6.5	40	0.50	Diesel	Fleet Avg	0.11	0.94	1.12	0.00	-	0.02	0.02	-	0.02	0.02	168.6	0.01	0.00
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Rollers	Rollers	1	6.5	36	0.38	Diesel	Fleet Avg	0.09	0.67	0.79	0.00	-	0.02	0.02	-	0.02	0.02	115.1	0.00	0.00
Vanowen St/Van Nuys Blvd TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Pumps	Pumps	1	6.5	11	0.74	Diesel	Fleet Avg	0.06	0.49	0.35	0.00	-	0.02	0.02	-	0.02	0.02	66.3	0.00	0.00
Vanowen St/Van Nuys Blvd TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Skid Steer Loaders	Skid Steer Loaders	1	6.5	71	0.37	Diesel	Tier 4 Final	0.03	1.03	1.39	0.00	-	0.00	0.00	-	0.00	0.00	199.1	0.01	0.00
Vanowen St/Van Nuys Blvd TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Cranes	Cranes	1	6.5	367	0.29	Diesel	Tier 4 Final	0.08	0.40	3.97	0.01	-	0.02	0.02	-	0.02	0.02	804.7	0.03	0.01
Magnolia TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	1	6.5	84	0.37	Diesel	Tier 4 Final	0.02	0.12	1.65	0.00	-	0.00	0.00	-	0.00	0.00	235.7	0.01	0.00
Magnolia TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Trenchers	Trenchers	1	6.5	40	0.50	Diesel	Fleet Avg	0.11	0.94	1.12	0.00	-	0.02	0.02	-	0.02	0.02	168.6	0.01	0.00
Magnolia TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Rollers	Rollers	1	6.5	36	0.38	Diesel	Fleet Avg	0.09	0.67	0.79	0.00	-	0.02	0.02	-	0.02	0.02	115.1	0.00	0.00
Magnolia TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Pumps	Pumps	1	6.5	11	0.74	Diesel	Fleet Avg	0.06	0.49	0.35	0.00	-	0.02	0.02	-	0.02	0.02	66.3	0.00	0.00
Magnolia TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Skid Steer Loaders	Skid Steer Loaders	1	6.5	71	0.37	Diesel	Tier 4 Final	0.03	1.03	1.39	0.00	-	0.00	0.00	-	0.00	0.00	199.1	0.01	0.00
Magnolia TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Cranes	Cranes	1	6.5	367	0.29	Diesel	Tier 4 Final	0.08	0.40	3.97	0.01	-	0.02	0.02	-	0.02	0.02	804.7	0.03	0.01
Mid Mountain Shaft TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	1	6.5	84	0.37	Diesel	Tier 4 Final	0.02	0.12	1.65	0.00	-	0.00	0.00	-	0.00	0.00	235.7	0.01	0.00
Mid Mountain Shaft TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Trenchers	Trenchers	1	6.5	40	0.50	Diesel	Fleet Avg	0.11	0.94	1.12	0.00	-	0.02	0.02	-	0.02	0.02	168.6	0.01	0.00
Mid Mountain Shaft TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Rollers	Rollers	1	6.5	36	0.38	Diesel	Fleet Avg	0.09	0.67	0.79	0.00	-	0.02	0.02	-	0.02	0.02	115.1	0.00	0.00
Mid Mountain Shaft TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Pumps	Pumps	1	6.5	11	0.74	Diesel	Fleet Avg	0.06	0.49	0.35	0.00	-	0.02	0.02	-	0.02	0.02	66.3	0.00	0.00
Mid Mountain Shaft TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Skid Steer Loaders	Skid Steer Loaders	1	6.5	71	0.37	Diesel	Tier 4 Final	0.03	1.03	1.39	0.00	-	0.00	0.00	-	0.00	0.00	199.1	0.01	0.00
Mid Mountain Shaft TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Cranes	Cranes	1	6.5	367	0.29	Diesel	Tier 4 Final	0.08	0.40	3.97	0.01	-	0.02	0.02	-	0.02	0.02	804.7	0.03	0.01
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	2033	Excavators	Excavators	2	6.5	36	0.38	Diesel	Fleet Avg	0.11	1.28	1.62	0.00	-	0.02	0.02	-	0.02	0.02	230.6	0.01	0.00
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	2033	Cranes	Cranes	1	6.5	367	0.29	Diesel	Tier 4 Final	0.08	0.40	3.97	0.01	-	0.02	0.02	-	0.02	0.02	804.7	0.03	0.01
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	2033	Rough Terrain Forklifts	Rough Terrain Forklifts	1	6.5	96	0.40	Diesel	Tier 4 Final	0.03	0.14	2.04	0.00	-	0.01	0.01	-	0.01	0.01	290.9	0.01	0.00
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	2033	Rollers	Rollers	1	6.5	36	0.38	Diesel	Fleet Avg	0.08	0.67	0.78	0.00	-	0.02	0.02	-	0.02	0.02	115.1	0.00	0.00
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	2033	Pumps	Pumps	2	6.5	11	0.74	Diesel	Fleet Avg	0.13	0.99	0.69	0.00	-	0.04	0.04	-	0.04	0.04	132.6	0.01	0.00
OMSF-Grading	2/1/2033	7/31/2033	5	129	8	2033	Excavators	Excavators	2	6.5	36	0.38	Diesel	Fleet Avg	0.11	1.28	1.62	0.00	-	0.02	0.02	-	0.02	0.02	230.6	0.01	0.00
OMSF-Grading	2/1/2033	7/31/2033	5	129	8	2033	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	6.5	84	0.37	Diesel	Tier 4 Final	0.04	0.23	3.30	0.00	-	0.01	0.01	-	0.01	0.01	471.4	0.02	0.00
OMSF-Grading	2/1/2033	7/31/2033	5	129	8	2033	Rollers	Rollers	1	6.5	36	0.38	Diesel	Fleet Avg	0.08	0.67	0.78	0.00	-	0.02	0.02	-	0.02	0.02	115.1	0.00	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 6

OFFROAD EQUIPMENT (ONSITE)[1]

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	Total Emissions (tons) ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	Total Emissions (metric tons) CO_2	CH_4	N_2O	CO_2e
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Aerial Lifts	Aerial Lifts	4	8.5	46	0.31	Diesel	Fleet Avg	0.02	0.48	0.51	0.00	-	0.00	0.00	-	0.00	0.00	89.3	0.00	0.00	89.7
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Generator Sets	Generator Sets	1	8.5	14	0.74	Diesel	Fleet Avg	0.02	0.13	0.09	0.00	-	0.00	0.00	-	0.00	0.00	15.7	0.00	0.00	15.8
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Forklifts	Forklifts	2	8.5	82	0.20	Diesel	Tier 4 Final	0.00	0.03	0.36	0.00	-	0.00	0.00	-	0.00	0.00	46.1	0.00	0.00	46.3
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Air Compressors	Air Compressors	2	8.5	37	0.48	Diesel	Fleet Avg	0.04	0.34	0.49	0.00	-	0.00	0.00	-	0.00	0.00	53.9	0.00	0.00	54.1
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete/Industrial Saws	Concrete/Industrial Saws	2	8.5	33	0.73	Diesel	Fleet Avg	0.02	0.23	0.30	0.00	-	0.00	0.00	-	0.00	0.00	36.7	0.00	0.00	36.8
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Cranes	Cranes	1	8.5	367	0.29	Diesel	Tier 4 Final	0.01	0.04	0.40	0.00	-	0.00	0.00	-	0.00	0.00	74.5	0.00	0.00	74.7
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.13	0.17	0.00	-	0.00	0.00	-	0.00	0.00	21.3	0.00	0.00	21.4
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.01	0.03	0.42	0.00	-	0.00	0.00	-	0.00	0.00	53.8	0.00	0.00	54.0
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Trenchers	Trenchers	1	8.5	40	0.50	Diesel	Fleet Avg	0.01	0.10	0.12	0.00	-	0.00	0.00	-	0.00	0.00	15.6	0.00	0.00	15.7
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Rollers	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.02	0.14	0.16	0.00	-	0.01	0.01	-	0.00	0.00	21.3	0.00	0.00	21.4
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Cement and Mortar Mixers	Cement and Mortar Mixers	1	8.5	10	0.56	Diesel	Fleet Avg	0.00	0.03	0.03	0.00	-	0.00	0.00	-	0.00	0.00	4.2	0.00	0.00	4.2
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Pavers	Pavers	1	8.5	81	0.42	Diesel	Tier 4 Final	0.00	0.01	0.18	0.00	-	0.00	0.00	-	0.00	0.00	23.7	0.00	0.00	23.8
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Surfacing Equipment	Surfacing Equipment	1	8.5	399	0.30	Diesel	Tier 4 Final	0.01	0.05	0.45	0.00	-	0.00	0.00	-	0.00	0.00	83.7	0.00	0.00	84.0
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Sweepers/Scrubbers	Sweepers/Scrubbers	1	8.5	36	0.46	Diesel	Fleet Avg	0.01	0.09	0.11	0.00	-	0.00	0.00	-	0.00	0.00	12.9	0.00	0.00	12.9
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	4	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.02	0.34	0.00	-	0.00	0.00	-	0.00	0.00	43.6	0.00	0.00	43.8
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.07	0.08	0.00	-	0.00	0.00	-	0.00	0.00	10.7	0.00	0.00	10.7
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Concrete/Industrial Saws	Concrete/Industrial Saws	2	8.5	33	0.73	Diesel	Fleet Avg	0.01	0.12	0.15	0.00	-	0.00	0.00	-	0.00	0.00	18.4	0.00	0.00	18.4
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Skid Steer Loaders	Skid Steer Loaders	2	8.5	71	0.37	Diesel	Tier 4 Final	0.00	0.11	0.14	0.00	-	0.00	0.00	-	0.00	0.00	18.4	0.00	0.00	18.5
Metro E Line (Expo)/Bundy Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Crawler Tractors	Crawler Tractors	2	8.5	87	0.43	Diesel	Tier 4 Final	0.00	0.01	0.20	0.00	-	0.00	0.00	-	0.00	0.00	26.2	0.00	0.00	26.3
Metro E Line (Expo)/Bundy Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.07	0.08	0.00	-	0.00	0.00	-	0.00	0.00	10.7	0.00	0.00	10.7
Metro E Line (Expo)/Bundy Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Excavators	Excavators	2	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.09	0.11	0.00	-	0.00	0.00	-	0.00	0.00	14.2	0.00	0.00	14.3
Metro E Line (Expo)/Bundy Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Pumps	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.01	0.07	0.05	0.00	-	0.00	0.00	-	0.00	0.00	8.2	0.00	0.00	8.2
Metro E Line (Expo)/Bundy Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Rollers	Rollers	1	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.05	0.05	0.00	-	0.00	0.00	-	0.00	0.00	7.1	0.00	0.00	7.1
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	2029	Bore/Drill Rigs	Bore/Drill Rigs	2	8.5	83	0.50	Diesel	Tier 4 Final	0.01	0.06	0.90	0.00	-	0.00	0.00	-	0.00	0.00	115.6	0.00	0.00	116.0
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	2029	Excavators	Excavators	4	8.5	36	0.38	Diesel	Fleet Avg	0.06	0.53	0.68	0.00	-	0.01	0.01	-	0.01	0.01	85.6	0.00	0.00	85.9
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	2029	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.01	0.06	0.83	0.00	-	0.00	0.00	-	0.00	0.00	108.0	0.00	0.00	108.4
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	2029	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.03	0.16	1.62	0.00	-	0.01	0.01	-	0.01	0.01	298.8	0.01	0.00	299.8
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	2029	Pumps	Pumps	2	8.5	11	0.74	Diesel	Fleet Avg	0.03	0.20	0.14	0.00	-	0.01	0.01	-	0.01	0.01	24.6	0.00	0.00	24.7
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.02	0.12	1.22	0.00	-	0.00	0.00	-	0.00	0.00	225.3	0.01	0.00	226.1
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Excavators	Excavators	6	8.5	36	0.38	Diesel	Fleet Avg	0.06	0.60	0.76	0.00	-	0.01	0.01	-	0.01	0.01	96.8	0.00	0.00	97.2
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.01	0.04	0.51	0.00	-	0.00	0.00	-	0.00	0.00	66.0	0.00	0.00	66.2
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.01	0.04	0.63	0.00	-	0.00	0.00	-	0.00	0.00	81.5	0.00	0.00	81.7
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Aerial Lifts	Aerial Lifts	2	8.5	46	0.31	Diesel	Fleet Avg	0.01	0.18	0.19	0.00	-	0.00	0.00	-	0.00	0.00	33.6	0.00	0.00	33.7
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.10	0.50	5.00	0.01	-	0.02	0.02	-	0.02	0.02	921.2	0.04	0.01	924.4
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Pumps	Pumps	3	8.5	11	0.74	Diesel	Fleet Avg	0.12	0.93	0.66	0.00	-	0.04	0.04	-	0.03	0.03	113.8	0.00	0.00	114.2
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.03	0.18	2.57	0.00	-	0.01	0.01	-	0.01	0.01	333.1	0.01	0.00	334.2
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Aerial Lifts	Aerial Lifts	3	8.5	46	0.31	Diesel	Fleet Avg	0.06	1.10	1.18	0.00	-	0.01	0.01	-	0.01	0.01	205.9	0.01	0.00	206.7
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Air Compressors	Air Compressors	2	8.5	37	0.48	Diesel	Fleet Avg	0.13	1.04	1.50	0.00	-	0.01	0.01	-	0.01	0.01	165.6	0.01	0.00	166.2
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Welders	Welders	2	8.5	46	0.45	Diesel	Fleet Avg	0.13	1.19	1.63	0.00	-	0.01	0.01	-	0.01	0.01	193.0	0.01	0.00	193.7
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Generator Sets	Generator Sets	2	8.5	14	0.74	Diesel	Fleet Avg	0.10	0.80	0.53	0.00	-	0.03	0.03	-	0.03	0.03	96.6	0.00	0.00	96.9
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.00	0.02	0.22	0.00	-	0.00	0.00	-	0.00	0.00	29.1	0.00	0.00	29.2
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Skid Steer Loaders	Skid Steer Loaders	1	8.5	71	0.37	Diesel	Tier 4 Final	0.00	0.07	0.09	0.00	-	0.00	0.00	-	0.00	0.00	12.3	0.00	0.00	12.3
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Pavers	Pavers	2	8.5	81	0.42	Diesel	Tier 4 Final	0.00	0.02	0.25	0.00	-	0.00	0.00	-	0.00	0.00	31.6	0.00	0.00	31.7
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Surfacing Equipment	Surfacing Equipment	1	8.5	399	0.30	Diesel	Tier 4 Final	0.01	0.03	0.30	0.00	-	0.00	0.00	-	0.00	0.00	55.8	0.00	0.00	56.0
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Sweepers/Scrubbers	Sweepers/Scrubbers	1	8.5	36	0.46	Diesel	Fleet Avg	0.01	0.05	0.07	0.00	-	0.00	0.00	-	0.00	0.00	8.6	0.00	0.00	8.6
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Rollers	Rollers	2	8.5	36	0.38	Diesel	Fleet Avg	0.01	0.09	0.10	0.00	-	0.00	0.00	-	0.00	0.00	14.2	0.00	0.00	14.2
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Aerial Lifts	Aerial Lifts	4	8.5	46	0.31	Diesel	Fleet Avg	0.02	0.48	0.51	0.00	-	0.00	0.00	-	0.00	0.00	89.1	0.00	0.00	89.4
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Generator Sets	Generator Sets	1	8.5	14	0.74	Diesel	Fleet Avg	0.02	0.13	0.09	0.00	-	0.00	0.00	-	0.00	0.00	15.7	0.00	0.00	15.7
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Forklifts	Forklifts	2	8.5	82	0.20	Diesel	Tier 4 Final	0.00	0.03	0.36	0.00	-	0.00	0.00	-	0.00	0.00	46.0	0.00	0.00	46.2
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Air Compressors	Air Compressors	2	8.5	37	0.48	Diesel	Fleet Avg	0.04	0.33	0.49	0.00	-	0.00	0.00	-	0.00	0.00	53.7	0.00	0.00	53.9
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	1	6.5	84	0.37	Diesel	Tier 4 Final	0.00	0.00	0.04	0.00	-	0.00	0.00	-	0.00	0.00	4.6	0.00	0.00	4.6
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Trenchers	Trenchers	1	6.5	40	0.50	Diesel	Fleet Avg	0.00	0.02	0.02	0.00	-	0.00	0.00	-	0.00	0.00	3.3	0.00	0.00	3.3
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Rollers	Rollers	1	6.5	36	0.38	Diesel	Fleet Avg	0.00	0.01	0.02	0.00	-	0.00	0.00	-	0.00	0.00	2.2	0.00	0.00	2.3
Vanowen St/Van Nuys Blvd TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Pumps	Pumps	1	6.5	11	0.74	Diesel	Fleet Avg	0.00	0.01	0.01	0.00	-	0.00	0.00	-	0.00	0.00	1.3	0.00	0.00	1.3
Vanowen St/Van Nuys Blvd TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Skid Steer Loaders	Skid Steer Loaders	1	6.5	71	0.37	Diesel	Tier 4 Final	0.00	0.02	0.03	0.00	-	0.00	0.00	-	0.00	0.00	4.0	0.00	0.00	4.0
Vanowen St/Van Nuys Blvd TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Cranes	Cranes	1	6.5	367	0.29	Diesel	Tier 4 Final	0.00	0.00	0.04	0.00	-	0.00	0.00	-	0.00	0.00	7.7	0.00	0.00	7.7
Magnolia TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	1	6.5	84	0.37	Diesel	Tier 4 Final	0.00	0.00	0.04	0.00	-	0.00	0.00	-	0.00	0.00	4.6	0.00	0.00	4.6
Magnolia TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Trenchers	Trenchers	1	6.5	40	0.50	Diesel	Fleet Avg	0.00	0.02	0.02	0.00	-	0.00	0.00	-	0.00	0.00	3.3	0.00	0.00	3.3
Magnolia TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Rollers	Rollers	1	6.5	36	0.38	Diesel	Fleet Avg	0.00	0.01	0.02	0.00	-	0.00	0.00	-	0.00	0.00	2.2	0.00	0.00	2.3
Magnolia TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Pumps	Pumps	1	6.5	11	0.74	Diesel	Fleet Avg	0.00	0.01	0.01	0.00	-	0.00	0.00	-	0.00	0.00	1.3	0.00	0.00	1.3
Magnolia TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Skid Steer Loaders	Skid Steer Loaders	1	6.5	71	0.37	Diesel	Tier 4 Final	0.00	0.02	0.03	0.00	-	0.00	0.00	-	0.00	0.00	4.0	0.00	0.00	4.0
Magnolia TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Cranes	Cranes	1	6.5	367	0.29	Diesel	Tier 4 Final	0.00	0.00	0.04	0.00	-	0.00	0.00	-	0.00	0.00	7.7	0.00	0.00	7.7
Mid Mountain Shaft TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	1	6.5	84	0.37	Diesel	Tier 4 Final	0.00	0.00	0.04	0.00	-	0.00	0.00	-	0.00	0.00	4.6	0.00	0.00	4.6
Mid Mountain Shaft TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Trenchers	Trenchers	1	6.5	40	0.50	Diesel	Fleet Avg	0.00	0.02	0.02	0.00	-	0.00	0.00	-	0.00	0.00	3.3	0.00	0.00	3.3
Mid Mountain Shaft TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Rollers	Rollers	1	6.5	36	0.38	Diesel	Fleet Avg	0.00	0.01	0.02	0.00	-	0.00	0.00	-	0.00	0.00	2.2	0.00	0.00	2.3
Mid Mountain Shaft TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Pumps	Pumps	1	6.5	11	0.74	Diesel	Fleet Avg	0.00	0.01	0.01	0.00	-	0.00	0.00	-	0.00	0.00	1.3	0.00	0.00	1.3
Mid Mountain Shaft TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Skid Steer Loaders	Skid Steer Loaders	1	6.5	71	0.37	Diesel	Tier 4 Final	0.00	0.02	0.03	0.00	-	0.00	0.00	-	0.00	0.00	4.0	0.00	0.00	4.0
Mid Mountain Shaft TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Cranes	Cranes	1	6.5	367	0.29	Diesel	Tier 4 Final	0.00	0.00	0.04	0.00	-	0.00	0.00	-	0.00	0.00	7.7	0.00	0.00	7.7
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	2033	Excavators	Excavators	2	6.5	36	0.38	Diesel	Fleet Avg	0.01	0.08	0.10	0.00	-	0.00	0.00	-	0.00	0.00	13.5	0.00	0.00	13.5
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	2033	Cranes	Cranes	1	6.5	367	0.29	Diesel	Tier 4 Final	0.00	0.03	0.26	0.00	-	0.00	0.00	-	0.00	0.00	47.1	0.00	0.00	47.2
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	2033	Rough Terrain Forklifts	Rough Terrain Forklifts	1	6.5	96	0.40	Diesel	Tier 4 Final	0.00	0.01	0.13	0.00	-	0.00	0.00	-	0.00	0.00	17.0	0.00	0.00	17.1
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	2033	Rollers	Rollers	1	6.5	36	0.38	Diesel	Fleet Avg	0.01	0.04	0.05	0.00	-	0.00	0.00	-	0.00	0.00	6.7	0.00	0.00	6.8
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	2033	Pumps	Pumps	2	6.5	11	0.74	Diesel	Fleet Avg	0.01	0.06	0.04	0.00	-	0.00	0.00	-	0.00	0.00	7.8	0.00	0.00	7.8
OMSF-Grading	2/1/2033	7/31/2033	5	129	8	2033	Excavators	Excavators	2	6.5	36	0.38	Diesel	Fleet Avg	0.01	0.08	0.10	0.00	-	0.00	0.00	-	0.00	0.00	13.5	0.00	0.00	13.5
OMSF-Grading	2/1/2033	7/31/2033	5	129	8	2033	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	6.5	84	0.37	Diesel	Tier 4 Final	0.00	0.01	0.21	0.00	-	0.00	0.00	-	0.00	0.00	27.6	0.00	0.00	27.7
OMSF-Grading	2/1/2033	7/31/2033	5	129	8	2033	Rollers	Rollers	1	6.5	36	0.38	Diesel	Fleet Avg	0.01	0.04	0.05	0.00	-	0.00	0.00	-	0.00	0.00	6.7	0.00	0.00	6.8

Sepulveda Transit Corridor Project - ALTERNATIVE 6

OFFROAD EQUIPMENT (ONSITE)[1]

																			Emission Factor (g/bhp-hr)[3]															
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O							
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Cranes	Cranes	2	6.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00							
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Rough Terrain Forklifts	Rough Terrain Forklifts	2	6.5	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00							
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Aerial Lifts	Aerial Lifts	6	6.5	46	0.31	Diesel	Fleet Avg	0.14	2.85	3.06	0.01	-	0.02	0.02	-	0.01	0.01	586.90	0.02	0.00							
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Generator Sets	Generator Sets	2	6.5	14	0.74	Diesel	Fleet Avg	0.53	4.25	2.84	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00							
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Air Compressors	Air Compressors	4	6.5	37	0.48	Diesel	Fleet Avg	0.39	3.23	4.68	0.01	-	0.03	0.03	-	0.02	0.02	568.40	0.02	0.00							
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Welders	Welders	4	6.5	46	0.45	Diesel	Fleet Avg	0.34	3.17	4.35	0.01	-	0.03	0.03	-	0.02	0.02	568.32	0.02	0.00							
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Pumps	Pumps	4	6.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.34	0.02	0.00							
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Skid Steer Loaders	Skid Steer Loaders	2	6.5	71	0.37	Diesel	Tier 4 Final	0.09	2.74	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.01	0.02	0.00							
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Excavators	Excavators	1	6.5	36	0.38	Diesel	Fleet Avg	0.27	3.24	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00							
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	1	6.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00							
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	2033	Pavers	Pavers	2	6.5	81	0.42	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	525.85	0.02	0.00							
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	2033	Rollers	Rollers	2	6.5	36	0.38	Diesel	Fleet Avg	0.40	3.39	3.98	0.01	-	0.09	0.09	-	0.09	0.09	587.11	0.02	0.00							
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	2033	Sweepers/Scrubbers	Sweepers/Scrubbers	1	6.5	36	0.46	Diesel	Fleet Avg	0.39	3.49	4.58	0.01	-	0.08	0.08	-	0.07	0.07	586.87	0.02	0.00							
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	2033	Pumps	Pumps	2	6.5	11	0.74	Diesel	Fleet Avg	0.56	4.23	2.97	0.01	-	0.16	0.16	-	0.15	0.15	568.30	0.02	0.00							
OMSF-Drainage/Utilties	5/1/2033	10/31/2033	5	131	8	2033	Excavators	Excavators	2	6.5	36	0.38	Diesel	Fleet Avg	0.28	3.26	4.13	0.01	-	0.04	0.04	-	0.04	0.04	588.07	0.02	0.00							
OMSF-Drainage/Utilties	5/1/2033	10/31/2033	5	131	8	2033	Rollers	Rollers	1	6.5	36	0.38	Diesel	Fleet Avg	0.40	3.39	3.98	0.01	-	0.09	0.09	-	0.09	0.09	587.11	0.02	0.00							
OMSF-Drainage/Utilties	5/1/2033	10/31/2033	5	131	8	2033	Rough Terrain Forklifts	Rough Terrain Forklifts	1	6.5	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00							
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	2030	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.05	0.26	2.60	0.00	-	0.01	0.01	-	0.01	0.01	527.61	0.02	0.00							
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	528.73	0.02	0.00							
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.05	0.26	3.70	0.00	-	0.01	0.01	-	0.01	0.01	529.26	0.02	0.00							
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	2030	Welders	Welders	2	8.5	46	0.45	Diesel	Fleet Avg	0.37	3.27	4.39	0.01	-	0.05	0.05	-	0.04	0.04	568.30	0.02	0.00							

Notes:

1. Data based on alternative specific information.
2. Horsepower and load factor based on default values for equipment in CalEEMod.
3. In accordance with Metro's Green Construction Policy, all off-road equipment equal to or greater than 50 HP would have emission factors for Tier 4 Final equipment, off-road equipment less than 50 HP would use fleet average emission factors from CalEEMod.

EXH = Exhaust

FD = Fugitive Dust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 6

OFFROAD EQUIPMENT (ONSITE)[1]

																Daily Emissions (lb/day)												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Cranes	Cranes	2	6.5	367	0.29	Diesel	Tier 4 Final	0.15	0.79	7.93	0.01	-	0.03	0.03	-	0.03	0.03	1609.4	0.07	0.01
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Rough Terrain Forklifts	Rough Terrain Forklifts	2	6.5	96	0.40	Diesel	Tier 4 Final	0.06	0.29	4.07	0.01	-	0.01	0.01	-	0.01	0.01	581.9	0.02	0.00
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Aerial Lifts	Aerial Lifts	6	6.5	46	0.31	Diesel	Fleet Avg	0.17	3.49	3.75	0.01	-	0.02	0.02	-	0.02	0.02	719.6	0.03	0.01
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Generator Sets	Generator Sets	2	6.5	14	0.74	Diesel	Fleet Avg	0.16	1.26	0.84	0.00	-	0.05	0.05	-	0.04	0.04	168.7	0.01	0.00
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Air Compressors	Air Compressors	4	6.5	37	0.48	Diesel	Fleet Avg	0.39	3.29	4.76	0.01	-	0.03	0.03	-	0.02	0.02	578.6	0.02	0.00
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Welders	Welders	4	6.5	46	0.45	Diesel	Fleet Avg	0.40	3.76	5.16	0.01	-	0.03	0.03	-	0.03	0.03	674.3	0.03	0.01
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Pumps	Pumps	4	6.5	11	0.74	Diesel	Fleet Avg	0.26	1.97	1.39	0.00	-	0.08	0.08	-	0.07	0.07	265.2	0.01	0.00
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Skid Steer Loaders	Skid Steer Loaders	2	6.5	71	0.37	Diesel	Tier 4 Final	0.07	2.06	2.79	0.00	-	0.01	0.01	-	0.01	0.01	398.3	0.02	0.00
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Excavators	Excavators	1	6.5	36	0.38	Diesel	Fleet Avg	0.05	0.64	0.81	0.00	-	0.01	0.01	-	0.01	0.01	115.3	0.00	0.00
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	1	6.5	84	0.37	Diesel	Tier 4 Final	0.02	0.12	1.65	0.00	-	0.00	0.00	-	0.00	0.00	235.7	0.01	0.00
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	2033	Pavers	Pavers	2	6.5	81	0.42	Diesel	Tier 4 Final	0.05	0.25	3.61	0.00	-	0.01	0.01	-	0.01	0.01	512.7	0.02	0.00
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	2033	Rollers	Rollers	2	6.5	36	0.38	Diesel	Fleet Avg	0.16	1.33	1.56	0.00	-	0.04	0.04	-	0.03	0.03	230.2	0.01	0.00
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	2033	Sweepers/Scrubbers	Sweepers/Scrubbers	1	6.5	36	0.46	Diesel	Fleet Avg	0.09	0.83	1.09	0.00	-	0.02	0.02	-	0.02	0.02	139.3	0.01	0.00
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	2033	Pumps	Pumps	2	6.5	11	0.74	Diesel	Fleet Avg	0.13	0.99	0.69	0.00	-	0.04	0.04	-	0.04	0.04	132.6	0.01	0.00
OMSF-Drainage/Utilties	5/1/2033	10/31/2033	5	131	8	2033	Excavators	Excavators	2	6.5	36	0.38	Diesel	Fleet Avg	0.11	1.28	1.62	0.00	-	0.02	0.02	-	0.02	0.02	230.6	0.01	0.00
OMSF-Drainage/Utilties	5/1/2033	10/31/2033	5	131	8	2033	Rollers	Rollers	1	6.5	36	0.38	Diesel	Fleet Avg	0.08	0.67	0.78	0.00	-	0.02	0.02	-	0.02	0.02	115.1	0.00	0.00
OMSF-Drainage/Utilties	5/1/2033	10/31/2033	5	131	8	2033	Rough Terrain Forklifts	Rough Terrain Forklifts	1	6.5	96	0.40	Diesel	Tier 4 Final	0.03	0.14	2.04	0.00	-	0.01	0.01	-	0.01	0.01	290.9	0.01	0.00
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	2030	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.20	1.04	10.37	0.02	-	0.04	0.04	-	0.04	0.04	2104.6	0.09	0.02
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.07	0.37	5.32	0.01	-	0.01	0.01	-	0.01	0.01	760.9	0.03	0.01
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.06	0.30	4.31	0.01	-	0.01	0.01	-	0.01	0.01	616.5	0.03	0.01
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	2030	Welders	Welders	2	8.5	46	0.45	Diesel	Fleet Avg	0.29	2.54	3.40	0.01	-	0.04	0.04	-	0.03	0.03	440.9	0.02	0.00

Notes:

1. Data based on alternative specific information.
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3. In accordance with Metro's Green Construction Policy, all off-road equipment equal to or greater than 50 HP would have emission factors for Tier 4 Final equipment, off-road equipment less than 50 HP would use fleet average emission factors from CalEEMod.

EXH = Exhaust

FD = Fugitive Dust

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Sepulveda Transit Corridor Project - ALTERNATIVE 6

OFFROAD EQUIPMENT (ONSITE)[1]

																	Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	First Year of CSTN	Equipment Type (Cranes, Bulldozer, etc.)	CalEEMod Equipment Type	Quantity	Daily Usage (hours)	HP[2]	LF[2]	Fuel Type	Engine Tier	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Cranes	Cranes	2	6.5	367	0.29	Diesel	Tier 4 Final	0.03	0.14	1.39	0.00	-	0.01	0.01	-	0.01	0.01	255.5	0.01	0.00	256.4
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Rough Terrain Forklifts	Rough Terrain Forklifts	2	6.5	96	0.40	Diesel	Tier 4 Final	0.01	0.05	0.71	0.00	-	0.00	0.00	-	0.00	0.00	92.4	0.00	0.00	92.7
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Aerial Lifts	Aerial Lifts	6	6.5	46	0.31	Diesel	Fleet Avg	0.03	0.61	0.66	0.00	-	0.00	0.00	-	0.00	0.00	114.2	0.00	0.00	114.6
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Generator Sets	Generator Sets	2	6.5	14	0.74	Diesel	Fleet Avg	0.03	0.22	0.15	0.00	-	0.01	0.01	-	0.01	0.01	26.8	0.00	0.00	26.9
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Air Compressors	Air Compressors	4	6.5	37	0.48	Diesel	Fleet Avg	0.07	0.58	0.83	0.00	-	0.00	0.00	-	0.00	0.00	91.9	0.00	0.00	92.2
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Welders	Welders	4	6.5	46	0.45	Diesel	Fleet Avg	0.07	0.66	0.90	0.00	-	0.01	0.01	-	0.00	0.00	107.1	0.00	0.00	107.4
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Pumps	Pumps	4	6.5	11	0.74	Diesel	Fleet Avg	0.05	0.35	0.24	0.00	-	0.01	0.01	-	0.01	0.01	42.1	0.00	0.00	42.2
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Skid Steer Loaders	Skid Steer Loaders	2	6.5	71	0.37	Diesel	Tier 4 Final	0.01	0.36	0.49	0.00	-	0.00	0.00	-	0.00	0.00	63.2	0.00	0.00	63.4
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Excavators	Excavators	1	6.5	36	0.38	Diesel	Fleet Avg	0.01	0.11	0.14	0.00	-	0.00	0.00	-	0.00	0.00	18.3	0.00	0.00	18.4
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	1	6.5	84	0.37	Diesel	Tier 4 Final	0.00	0.02	0.29	0.00	-	0.00	0.00	-	0.00	0.00	37.4	0.00	0.00	37.6
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	2033	Pavers	Pavers	2	6.5	81	0.42	Diesel	Tier 4 Final	0.00	0.02	0.23	0.00	-	0.00	0.00	-	0.00	0.00	30.0	0.00	0.00	30.1
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	2033	Rollers	Rollers	2	6.5	36	0.38	Diesel	Fleet Avg	0.01	0.09	0.10	0.00	-	0.00	0.00	-	0.00	0.00	13.5	0.00	0.00	13.5
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	2033	Sweepers/Scrubbers	Sweepers/Scrubbers	1	6.5	36	0.46	Diesel	Fleet Avg	0.01	0.05	0.07	0.00	-	0.00	0.00	-	0.00	0.00	8.1	0.00	0.00	8.2
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	2033	Pumps	Pumps	2	6.5	11	0.74	Diesel	Fleet Avg	0.01	0.06	0.04	0.00	-	0.00	0.00	-	0.00	0.00	7.8	0.00	0.00	7.8
OMSF-Drainage/Utilties	5/1/2033	10/31/2033	5	131	8	2033	Excavators	Excavators	2	6.5	36	0.38	Diesel	Fleet Avg	0.01	0.08	0.11	0.00	-	0.00	0.00	-	0.00	0.00	13.7	0.00	0.00	13.7
OMSF-Drainage/Utilties	5/1/2033	10/31/2033	5	131	8	2033	Rollers	Rollers	1	6.5	36	0.38	Diesel	Fleet Avg	0.01	0.04	0.05	0.00	-	0.00	0.00	-	0.00	0.00	6.8	0.00	0.00	6.9
OMSF-Drainage/Utilties	5/1/2033	10/31/2033	5	131	8	2033	Rough Terrain Forklifts	Rough Terrain Forklifts	1	6.5	96	0.40	Diesel	Tier 4 Final	0.00	0.01	0.13	0.00	-	0.00	0.00	-	0.00	0.00	17.3	0.00	0.00	17.3
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	2030	Cranes	Cranes	2	8.5	367	0.29	Diesel	Tier 4 Final	0.12	0.65	6.50	0.01	-	0.02	0.02	-	0.02	0.02	1196.1	0.05	0.01	1200.2
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	2030	Rough Terrain Forklifts	Rough Terrain Forklifts	2	8.5	96	0.40	Diesel	Tier 4 Final	0.05	0.23	3.34	0.00	-	0.01	0.01	-	0.01	0.01	432.5	0.02	0.00	434.0
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	2030	Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	2	8.5	84	0.37	Diesel	Tier 4 Final	0.04	0.19	2.70	0.00	-	0.01	0.01	-	0.01	0.01	350.4	0.01	0.00	351.6
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	2030	Welders	Welders	2	8.5	46	0.45	Diesel	Fleet Avg	0.18	1.59	2.13	0.00	-	0.02	0.02	-	0.02	0.02	250.6	0.01	0.00	251.4

Notes:

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EXH = Exhaust

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Sepulveda Transit Corridor Project - ALTERNATIVE 6

Demo Dust Control Reduction 36%

DEMOLITION FUGITIVE DUST (ONSITE)

								Demolition EF (lb pollutant/ton waste)[1]						Daily Emissions (lb/day)[2]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	Total Demo Debris Weight (tons)	Daily Demo Debris Weight (tons/day)	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
Segment 1-Westside-Ground Improvements	5/1/2031	8/31/2031	6	105	20	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Tunnel Boring/Tunneling	9/1/2031	10/31/2032	6	366	20	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-TBM Retrieval/Tunnel Prep	11/1/2032	4/30/2033	6	156	20	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Annular Grouting	9/1/2031	10/31/2032	6	366	20	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Invert Construction	4/1/2034	7/31/2034	6	104	20	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Rail and Plinth	8/1/2034	1/31/2035	6	158	20	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Ground Improvements	5/1/2031	8/31/2031	6	105	20	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Tunnel Boring/Tunneling	9/1/2031	1/31/2034	6	758	20	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-TBM Retrieval/Tunnel Prep	2/1/2034	7/31/2034	6	155	20	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Annular Grouting	9/1/2031	1/31/2034	6	758	20	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Invert Construction	5/1/2035	2/28/2037	6	575	20	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Rail and Plinth	4/1/2036	3/31/2037	6	313	20	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Ground Improvements	5/1/2031	8/31/2031	6	105	20	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Tunnel Boring/Tunneling	9/1/2031	8/31/2032	6	314	20	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-TBM Retrieval/Tunnel Prep	9/1/2032	2/28/2033	6	155	20	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Annular Grouting	9/1/2031	8/31/2032	6	314	20	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Invert Construction	4/1/2034	5/31/2035	6	365	20	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Rail and Plinth	8/1/2034	9/30/2035	6	365	20	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Site Preparation/Demolition	11/1/2031	12/31/2031	6	52	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Drainage/Utilities	11/1/2031	12/31/2031	6	52	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Shaft Drilling	1/1/2032	12/31/2032	6	314	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Shaft Lining	1/1/2032	12/31/2032	6	314	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Cavern and Adit	1/1/2033	12/31/2033	6	313	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	3091.6	39.6	0.022	-	0.022	0.003	-	0.003	0.550	-	0.550	0.083	-	0.083	0.021	-	0.021	0.003	-	0.003
Van Nuys Metrolink Station-Grading	4/1/2029	6/30/2029	6	78	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Drainage	4/1/2029	7/31/2029	6	104	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	3056.1	39.2	0.022	-	0.022	0.003	-	0.003	0.543	-	0.543	0.082	-	0.082	0.021	-	0.021	0.003	-	0.003
Metro G Line Station-Grading	4/1/2029	6/30/2029	6	78	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Drainage	4/1/2029	7/31/2029	6	104	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	3216.5	30.9	0.022	-	0.022	0.003	-	0.003	0.429	-	0.429	0.065	-	0.065	0.022	-	0.022	0.003	-	0.003
Ventura Blvd Station-Grading	4/1/2029	7/31/2029	6	104	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Drainage	4/1/2029	6/30/2030	6	390	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 6

Demo Dust Control Reduction 36%

DEMOLITION FUGITIVE DUST (ONSITE)

								Demolition EF (lb pollutant/ton waste)[1]						Daily Emissions (lb/day)[2]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	Total Demo Debris Weight (tons)	Daily Demo Debris Weight (tons/day)	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	3043.4	6.5	0.022	-	0.022	0.003	-	0.003	0.090	-	0.090	0.014	-	0.014	0.021	-	0.021	0.003	-	0.003
UCLA Station-Grading	4/1/2029	6/30/2029	6	78	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Drainage	4/1/2029	12/31/2029	6	235	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2116.7	27.1	0.022	-	0.022	0.003	-	0.003	0.376	-	0.376	0.057	-	0.057	0.015	-	0.015	0.002	-	0.002
Wilshire Blvd (Metro D Line) Station-Grading	4/1/2029	6/30/2029	6	78	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Drainage	4/1/2029	3/31/2030	6	312	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	157068.0	1006.8	0.022	-	0.022	0.003	-	0.003	13.959	-	13.959	2.114	-	2.114	1.089	-	1.089	0.165	-	0.165
Santa Monica Blvd Station-Grading	4/1/2029	6/30/2029	6	78	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Drainage	4/1/2029	7/31/2029	6	104	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	3844.4	49.3	0.022	-	0.022	0.003	-	0.003	0.683	-	0.683	0.103	-	0.103	0.027	-	0.027	0.004	-	0.004
Metro E Line (Expo)/Bundy Station-Grading	4/1/2029	6/30/2029	6	78	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Drainage	4/1/2029	7/31/2029	6	104	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Vanowen St/Van Nuys Blvd TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Vanowen St/Van Nuys Blvd TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Magnolia TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Magnolia TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Magnolia TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	1229.4	9.5	0.022	-	0.022	0.003	-	0.003	0.132	-	0.132	0.020	-	0.020	0.009	-	0.009	0.001	-	0.001
OMSF-Grading	2/1/2033	7/31/2033	5	129	8	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Drainage/Utilties	5/1/2033	10/31/2033	5	131	8	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	-	-	0.022	-	0.022	0.003	-	0.003	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

1. Emission factor based on CalEEMod default value.
2. Emissions account for application of water 2 times per day during demolition activities.

FD = Fugitive Dust

EXH = Exhaust

Sepulveda Transit Corridor Project - ALTERNATIVE 6

Dust Control Reduction 74%

TRUCK LOADING FUGITIVE DUST (ONSITE)

										Truck Loading EF (lb pollutant/ton throughput)[2]						Daily Emissions (lb/day)[3]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	Total Soil Volume (CY)	Soil Density (tons/CY)[1]	Total Throughput (tons)	Daily Throughput (tons)	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
Segment 1-Westside-Ground Improvements	5/1/2031	8/31/2031	6	105	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Tunnel Boring/Tunneling	9/1/2031	10/31/2032	6	366	20	460000	1.26	581516.5	1588.8	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.046	-	0.046	0.007	-	0.007	0.008	-	0.008	0.001	-	0.001
Segment 1-Westside-TBM Retrieval/Tunnel Prep	11/1/2032	4/30/2033	6	156	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Annular Grouting	9/1/2031	10/31/2032	6	366	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Invert Construction	4/1/2034	7/31/2034	6	104	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Rail and Plinth	8/1/2034	1/31/2035	6	158	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Ground Improvements	5/1/2031	8/31/2031	6	105	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Tunnel Boring/Tunneling	9/1/2031	1/31/2034	6	758	20	1040000	1.26	1314732.8	1734.5	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.050	-	0.050	0.008	-	0.008	0.019	-	0.019	0.003	-	0.003
Segment 2-Mountain-TBM Retrieval/Tunnel Prep	2/1/2034	7/31/2034	6	155	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Annular Grouting	9/1/2031	1/31/2034	6	758	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Invert Construction	5/1/2035	2/28/2037	6	575	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Rail and Plinth	4/1/2036	3/31/2037	6	313	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Ground Improvements	5/1/2031	8/31/2031	6	105	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Tunnel Boring/Tunneling	9/1/2031	8/31/2032	6	314	20	854000	1.26	1079597.9	3438.2	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.099	-	0.099	0.015	-	0.015	0.016	-	0.016	0.002	-	0.002
Segment 3-Valley-TBM Retrieval/Tunnel Prep	9/1/2032	2/28/2033	6	155	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Annular Grouting	9/1/2031	8/31/2032	6	314	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Invert Construction	4/1/2034	5/31/2035	6	365	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Rail and Plinth	8/1/2034	9/30/2035	6	365	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Site Preparation/Demolition	11/1/2031	12/31/2031	6	52	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	293000	1.26	370400.7	2344.3	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.068	-	0.068	0.010	-	0.010	0.005	-	0.005	0.001	-	0.001
Mid Mountain Shaft-Drainage/Utilities	11/1/2031	12/31/2031	6	52	10	100	1.26	126.4	2.4	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.000	-	0.000	0.000	-	0.000	0.000	-	0.000	0.000	-	0.000
Mid Mountain Shaft-Shaft Drilling	1/1/2032	12/31/2032	6	314	10	31000	1.26	39189.2	124.8	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.004	-	0.004	0.001	-	0.001	0.001	-	0.001	0.000	-	0.000
Mid Mountain Shaft-Shaft Lining	1/1/2032	12/31/2032	6	314	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Cavern and Adit	1/1/2033	12/31/2033	6	313	10	43000	1.26	54359.1	173.7	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.005	-	0.005	0.001	-	0.001	0.001	-	0.001	0.000	-	0.000
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Grading	4/1/2029	6/30/2029	6	78	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Drainage	4/1/2029	7/31/2029	6	104	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	346140	1.26	437578.5	1854.1	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.053	-	0.053	0.008	-	0.008	0.006	-	0.006	0.001	-	0.001
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Grading	4/1/2029	6/30/2029	6	78	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Drainage	4/1/2029	7/31/2029	6	104	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	436359	1.26	551630.3	2337.4	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.067	-	0.067	0.010	-	0.010	0.008	-	0.008	0.001	-	0.001
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Grading	4/1/2029	7/31/2029	6	104	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Drainage	4/1/2029	6/30/2030	6	390	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	344659	1.26	435706.3	1862.0	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.054	-	0.054	0.008	-	0.008	0.006	-	0.006	0.001	-	0.001
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 6

Dust Control Reduction 74%

TRUCK LOADING FUGITIVE DUST (ONSITE)

										Truck Loading EF (lb pollutant/ton throughput)[2]						Daily Emissions (lb/day)[3]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	Total Soil Volume (CY)	Soil Density (tons/CY)[1]	Total Throughput (tons)	Daily Throughput (tons)	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Grading	4/1/2029	6/30/2029	6	78	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Drainage	4/1/2029	12/31/2029	6	235	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	513335	1.26	648940.8	2073.3	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.060	-	0.060	0.009	-	0.009	0.009	-	0.009	0.001	-	0.001
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Grading	4/1/2029	6/30/2029	6	78	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Drainage	4/1/2029	3/31/2030	6	312	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	348655	1.26	440757.6	1127.3	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.033	-	0.033	0.005	-	0.005	0.006	-	0.006	0.001	-	0.001
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Grading	4/1/2029	6/30/2029	6	78	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Drainage	4/1/2029	7/31/2029	6	104	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	395013	1.26	499362.1	2115.9	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.061	-	0.061	0.009	-	0.009	0.007	-	0.007	0.001	-	0.001
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Grading	4/1/2029	6/30/2029	6	78	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Drainage	4/1/2029	7/31/2029	6	104	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	560984	1.26	709177.0	3005.0	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.087	-	0.087	0.013	-	0.013	0.010	-	0.010	0.002	-	0.002
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Vanowen St/Van Nuys Blvd TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Vanowen St/Van Nuys Blvd TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Magnolia TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Magnolia TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Magnolia TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	12933	1.26	16349.5	126.7	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	0.004	-	0.004	0.001	-	0.001	0.000	-	0.000	0.000	-	0.000
OMSF-Grading	2/1/2033	7/31/2033	5	129	8	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Drainage/Utilties	5/1/2033	10/31/2033	5	131	8	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	-	1.26	-	-	1.1E-04	-	1.1E-04	1.7E-05	-	1.7E-05	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

1. Conversion factor based on CalEEMod default value.
2. Emission factor based on CalEEMod default value.
3. Emissions account for dust control reduction from water application 3 times per day.

FD = Fugitive Dust

EXH = Exhaust

Sepulveda Transit Corridor Project - ALTERNATIVE 6

Dust Control Reduction 74%

BULLDOZING FUGITIVE DUST (ONSITE)

									Bulldozing EF (lb/hr)[1]						Daily Emissions (lb/day)[2,3]						Total Emissions (tons)					
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Hours per Workday**	**CalEEmod Equipment Type**	**# of Equipment**	**Daily Usage (hr/day)**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**
Segment 1-Westside-Ground Improvements	5/1/2031	8/31/2031	6	105	20	Bore/Drill Rigs	2	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Ground Improvements	5/1/2031	8/31/2031	6	105	20	Pumps	2	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	Cranes	2	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	Aerial Lifts	2	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	Rough Terrain Forklifts	2	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Tunnel Boring/Tunneling	9/1/2031	10/31/2032	6	366	20	Other Construction Equipme	2	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Tunnel Boring/Tunneling	9/1/2031	10/31/2032	6	366	20	Cranes	1	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Tunnel Boring/Tunneling	9/1/2031	10/31/2032	6	366	20	Rough Terrain Forklifts	2	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-TBM Retrieval/Tunnel Prep	11/1/2032	4/30/2033	6	156	20	Cranes	2	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-TBM Retrieval/Tunnel Prep	11/1/2032	4/30/2033	6	156	20	Aerial Lifts	2	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Annular Grouting	9/1/2031	10/31/2032	6	366	20	Bore/Drill Rigs	2	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Annular Grouting	9/1/2031	10/31/2032	6	366	20	Pumps	2	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Invert Construction	4/1/2034	7/31/2034	6	104	20	Pumps	2	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	Excavators	2	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	Pumps	2	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	Tractors/Loaders/Backhoes	2	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	Air Compressors	2	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Rail and Plinth	8/1/2034	1/31/2035	6	158	20	Pumps	1	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	Aerial Lifts	8	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	Rough Terrain Forklifts	2	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	Generator Sets	1	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	Aerial Lifts	4	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Ground Improvements	5/1/2031	8/31/2031	6	105	20	Bore/Drill Rigs	2	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Ground Improvements	5/1/2031	8/31/2031	6	105	20	Pumps	2	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	Cranes	2	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	Aerial Lifts	2	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	Rough Terrain Forklifts	2	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Tunnel Boring/Tunneling	9/1/2031	1/31/2034	6	758	20	Other Construction Equipme	2	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Tunnel Boring/Tunneling	9/1/2031	1/31/2034	6	758	20	Cranes	1	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Tunnel Boring/Tunneling	9/1/2031	1/31/2034	6	758	20	Rough Terrain Forklifts	2	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-TBM Retrieval/Tunnel Prep	2/1/2034	7/31/2034	6	155	20	Cranes	2	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-TBM Retrieval/Tunnel Prep	2/1/2034	7/31/2034	6	155	20	Aerial Lifts	2	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Annular Grouting	9/1/2031	1/31/2034	6	758	20	Bore/Drill Rigs	2	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Annular Grouting	9/1/2031	1/31/2034	6	758	20	Pumps	2	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Invert Construction	5/1/2035	2/28/2037	6	575	20	Pumps	2	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	Excavators	2	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	Pumps	2	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	Tractors/Loaders/Backhoes	2	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	Air Compressors	2	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Rail and Plinth	4/1/2036	3/31/2037	6	313	20	Pumps	1	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	Aerial Lifts	8	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	Rough Terrain Forklifts	2	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	Generator Sets	1	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	Aerial Lifts	4	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Ground Improvements	5/1/2031	8/31/2031	6	105	20	Bore/Drill Rigs	2	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Ground Improvements	5/1/2031	8/31/2031	6	105	20	Pumps	2	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	Cranes	2	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	Aerial Lifts	2	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	Rough Terrain Forklifts	2	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Tunnel Boring/Tunneling	9/1/2031	8/31/2032	6	314	20	Other Construction Equipme	2	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Tunnel Boring/Tunneling	9/1/2031	8/31/2032	6	314	20	Cranes	1	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Tunnel Boring/Tunneling	9/1/2031	8/31/2032	6	314	20	Rough Terrain Forklifts	2	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-TBM Retrieval/Tunnel Prep	9/1/2032	2/28/2033	6	155	20	Cranes	2	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-TBM Retrieval/Tunnel Prep	9/1/2032	2/28/2033	6	155	20	Aerial Lifts	2	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Annular Grouting	9/1/2031	8/31/2032	6	314	20	Bore/Drill Rigs	2	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Annular Grouting	9/1/2031	8/31/2032	6	314	20	Pumps	2	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Invert Construction	4/1/2034	5/31/2035	6	365	20	Pumps	2	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	Excavators	2	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	Pumps	2	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	Tractors/Loaders/Backhoes	2	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	Air Compressors	2	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Rail and Plinth	8/1/2034	9/30/2035	6	365	20	Pumps	1	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 6

Dust Control Reduction 74%

BULLDOZING FUGITIVE DUST (ONSITE)

									Bulldozing EF (lb/hr)[1]						Daily Emissions (lb/day)[2,3]						Total Emissions (tons)					
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Hours per Workday**	**CalEEmod Equipment Type**	**# of Equipment**	**Daily Usage (hr/day)**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	Aerial Lifts	8	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	Rough Terrain Forklifts	2	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	Generator Sets	1	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	Aerial Lifts	4	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Site Preparation/Demolition	11/1/2031	12/31/2031	6	52	10	Tractors/Loaders/Backhoes	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Site Preparation/Demolition	11/1/2031	12/31/2031	6	52	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	Tractors/Loaders/Backhoes	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	Pavers	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	Rollers	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	Scrapers	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	Crawler Tractors	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Drainage/Utilities	11/1/2031	12/31/2031	6	52	10	Excavators	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Drainage/Utilities	11/1/2031	12/31/2031	6	52	10	Pumps	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Drainage/Utilities	11/1/2031	12/31/2031	6	52	10	Rollers	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Shaft Drilling	1/1/2032	12/31/2032	6	314	10	Bore/Drill Rigs	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Shaft Drilling	1/1/2032	12/31/2032	6	314	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Shaft Drilling	1/1/2032	12/31/2032	6	314	10	Tractors/Loaders/Backhoes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Cavern and Adit	1/1/2033	12/31/2033	6	313	10	Excavators	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Cavern and Adit	1/1/2033	12/31/2033	6	313	10	Pumps	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Concrete/Industrial Saws	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Excavators	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Rough Terrain Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Trenchers	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Rollers	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Cement and Mortar Mixers	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Pavers	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Surfacing Equipment	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Sweepers/Scrubbers	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	Tractors/Loaders/Backhoes	4	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	Excavators	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	Concrete/Industrial Saws	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	Skid Steer Loaders	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Grading	4/1/2029	6/30/2029	6	78	10	Crawler Tractors	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Grading	4/1/2029	6/30/2029	6	78	10	Excavators	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Drainage	4/1/2029	7/31/2029	6	104	10	Excavators	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Drainage	4/1/2029	7/31/2029	6	104	10	Pumps	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Drainage	4/1/2029	7/31/2029	6	104	10	Rollers	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	Bore/Drill Rigs	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	Excavators	4	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	Rough Terrain Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	Cranes	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	Pumps	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	Cranes	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	Excavators	6	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	Tractors/Loaders/Backhoes	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	Rough Terrain Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	Aerial Lifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	Cranes	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	Pumps	3	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	Rough Terrain Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	Aerial Lifts	3	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	Air Compressors	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	Welders	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	Generator Sets	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Tractors/Loaders/Backhoes	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Skid Steer Loaders	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Pavers	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Surfacing Equipment	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Sweepers/Scrubbers	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Rollers	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	Aerial Lifts	4	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	Generator Sets	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	Air Compressors	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 6

Dust Control Reduction 74%

BULLDOZING FUGITIVE DUST (ONSITE)

									Bulldozing EF (lb/hr)[1]						Daily Emissions (lb/day)[2,3]						Total Emissions (tons)					
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Hours per Workday**	**CalEEmod Equipment Type**	**# of Equipment**	**Daily Usage (hr/day)**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Concrete/Industrial Saws	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Excavators	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Rough Terrain Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Trenchers	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Rollers	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Cement and Mortar Mixers	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Pavers	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Surfacing Equipment	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Sweepers/Scrubbers	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	Tractors/Loaders/Backhoes	4	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	Excavators	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	Concrete/Industrial Saws	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	Skid Steer Loaders	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Grading	4/1/2029	6/30/2029	6	78	10	Crawler Tractors	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Grading	4/1/2029	6/30/2029	6	78	10	Excavators	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Drainage	4/1/2029	7/31/2029	6	104	10	Excavators	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Drainage	4/1/2029	7/31/2029	6	104	10	Pumps	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Drainage	4/1/2029	7/31/2029	6	104	10	Rollers	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	Bore/Drill Rigs	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	Excavators	4	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	Rough Terrain Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	Cranes	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	Pumps	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	Cranes	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	Excavators	6	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	Tractors/Loaders/Backhoes	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	Rough Terrain Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	Aerial Lifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Cranes	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Pumps	3	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Rough Terrain Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Aerial Lifts	3	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Air Compressors	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Welders	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Generator Sets	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Tractors/Loaders/Backhoes	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Skid Steer Loaders	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Pavers	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Surfacing Equipment	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Sweepers/Scrubbers	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Rollers	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	Aerial Lifts	4	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	Generator Sets	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	Air Compressors	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Concrete/Industrial Saws	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Excavators	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Rough Terrain Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Trenchers	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Rollers	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Cement and Mortar Mixers	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Pavers	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Surfacing Equipment	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Sweepers/Scrubbers	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	Tractors/Loaders/Backhoes	4	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	Excavators	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	Concrete/Industrial Saws	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	Skid Steer Loaders	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Grading	4/1/2029	7/31/2029	6	104	10	Crawler Tractors	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Grading	4/1/2029	7/31/2029	6	104	10	Excavators	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Drainage	4/1/2029	6/30/2030	6	390	10	Excavators	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Drainage	4/1/2029	6/30/2030	6	390	10	Pumps	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Drainage	4/1/2029	6/30/2030	6	390	10	Rollers	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 6

Dust Control Reduction 74%

BULLDOZING FUGITIVE DUST (ONSITE)

									Bulldozing EF (lb/hr)[1]						Daily Emissions (lb/day)[2,3]						Total Emissions (tons)					
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Hours per Workday**	**CalEEmod Equipment Type**	**# of Equipment**	**Daily Usage (hr/day)**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	Bore/Drill Rigs	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	Excavators	4	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	Rough Terrain Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	Cranes	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	Pumps	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	Cranes	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	Excavators	6	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	Tractors/Loaders/Backhoes	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	Rough Terrain Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	Aerial Lifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Cranes	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Pumps	3	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Rough Terrain Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Aerial Lifts	3	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Air Compressors	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Welders	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Generator Sets	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	Tractors/Loaders/Backhoes	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	Skid Steer Loaders	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	Pavers	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	Surfacing Equipment	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	Sweepers/Scrubbers	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	Rollers	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	Aerial Lifts	4	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	Generator Sets	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	Air Compressors	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	Concrete/Industrial Saws	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	Excavators	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	Rough Terrain Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	Trenchers	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	Rollers	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	Cement and Mortar Mixers	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	Pavers	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	Surfacing Equipment	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	Sweepers/Scrubbers	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	Tractors/Loaders/Backhoes	4	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	Excavators	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	Concrete/Industrial Saws	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	Skid Steer Loaders	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Grading	4/1/2029	6/30/2029	6	78	10	Crawler Tractors	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Grading	4/1/2029	6/30/2029	6	78	10	Excavators	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Drainage	4/1/2029	12/31/2029	6	235	10	Excavators	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Drainage	4/1/2029	12/31/2029	6	235	10	Pumps	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Drainage	4/1/2029	12/31/2029	6	235	10	Rollers	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	Bore/Drill Rigs	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	Excavators	4	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	Rough Terrain Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	Cranes	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	Pumps	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	Cranes	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	Excavators	6	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	Tractors/Loaders/Backhoes	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	Rough Terrain Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	Aerial Lifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	Cranes	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	Pumps	3	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	Rough Terrain Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	Aerial Lifts	3	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	Air Compressors	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	Welders	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	Generator Sets	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 6

Dust Control Reduction 74%

BULLDOZING FUGITIVE DUST (ONSITE)

									Bulldozing EF (lb/hr)[1]						Daily Emissions (lb/day)[2,3]						Total Emissions (tons)					
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Hours per Workday**	**CalEEmod Equipment Type**	**# of Equipment**	**Daily Usage (hr/day)**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	Tractors/Loaders/Backhoes	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	Skid Steer Loaders	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	Pavers	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	Surfacing Equipment	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	Sweepers/Scrubbers	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	Rollers	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	Aerial Lifts	4	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	Generator Sets	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	Air Compressors	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Concrete/Industrial Saws	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Excavators	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Rough Terrain Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Trenchers	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Rollers	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Cement and Mortar Mixers	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Pavers	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Surfacing Equipment	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Sweepers/Scrubbers	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolitior	4/1/2029	6/30/2029	6	78	10	Tractors/Loaders/Backhoes	4	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolitior	4/1/2029	6/30/2029	6	78	10	Excavators	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolitior	4/1/2029	6/30/2029	6	78	10	Concrete/Industrial Saws	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolitior	4/1/2029	6/30/2029	6	78	10	Skid Steer Loaders	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Grading	4/1/2029	6/30/2029	6	78	10	Crawler Tractors	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Grading	4/1/2029	6/30/2029	6	78	10	Excavators	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Drainage	4/1/2029	3/31/2030	6	312	10	Excavators	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Drainage	4/1/2029	3/31/2030	6	312	10	Pumps	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Drainage	4/1/2029	3/31/2030	6	312	10	Rollers	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	Bore/Drill Rigs	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	Excavators	4	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	Rough Terrain Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	Cranes	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	Pumps	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	Cranes	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	Excavators	6	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	Tractors/Loaders/Backhoes	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	Rough Terrain Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	Aerial Lifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Cranes	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Pumps	3	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Rough Terrain Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Aerial Lifts	3	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Air Compressors	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Welders	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Generator Sets	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Tractors/Loaders/Backhoes	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Skid Steer Loaders	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Pavers	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Surfacing Equipment	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Sweepers/Scrubbers	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Rollers	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	Aerial Lifts	4	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	Generator Sets	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	Air Compressors	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Concrete/Industrial Saws	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Excavators	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Rough Terrain Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Trenchers	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Rollers	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Cement and Mortar Mixers	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Pavers	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Surfacing Equipment	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Sweepers/Scrubbers	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 6

Dust Control Reduction 74%

BULLDOZING FUGITIVE DUST (ONSITE)

									Bulldozing EF (lb/hr)[1]						Daily Emissions (lb/day)[2,3]						Total Emissions (tons)					
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Hours per Workday**	**CalEEmod Equipment Type**	**# of Equipment**	**Daily Usage (hr/day)**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	Tractors/Loaders/Backhoes	4	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	Excavators	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	Concrete/Industrial Saws	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	Skid Steer Loaders	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Grading	4/1/2029	6/30/2029	6	78	10	Crawler Tractors	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Grading	4/1/2029	6/30/2029	6	78	10	Excavators	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Drainage	4/1/2029	7/31/2029	6	104	10	Excavators	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Drainage	4/1/2029	7/31/2029	6	104	10	Pumps	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Drainage	4/1/2029	7/31/2029	6	104	10	Rollers	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	Bore/Drill Rigs	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	Excavators	4	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	Rough Terrain Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	Cranes	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	Pumps	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	Cranes	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	Excavators	6	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	Tractors/Loaders/Backhoes	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	Rough Terrain Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	Aerial Lifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Cranes	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Pumps	3	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Rough Terrain Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Aerial Lifts	3	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Air Compressors	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Welders	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Generator Sets	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Tractors/Loaders/Backhoes	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Skid Steer Loaders	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Pavers	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Surfacing Equipment	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Sweepers/Scrubbers	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Rollers	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	Aerial Lifts	4	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	Generator Sets	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	Air Compressors	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Concrete/Industrial Saws	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Cranes	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Excavators	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Rough Terrain Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Trenchers	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Rollers	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Cement and Mortar Mixers	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Pavers	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Surfacing Equipment	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Sweepers/Scrubbers	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	Tractors/Loaders/Backhoes	4	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	Excavators	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	Concrete/Industrial Saws	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	Skid Steer Loaders	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Grading	4/1/2029	6/30/2029	6	78	10	Crawler Tractors	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Grading	4/1/2029	6/30/2029	6	78	10	Excavators	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Drainage	4/1/2029	7/31/2029	6	104	10	Excavators	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Drainage	4/1/2029	7/31/2029	6	104	10	Pumps	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Drainage	4/1/2029	7/31/2029	6	104	10	Rollers	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	Bore/Drill Rigs	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	Excavators	4	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	Rough Terrain Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	Cranes	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	Pumps	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	Cranes	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	Excavators	6	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	Tractors/Loaders/Backhoes	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	Rough Terrain Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	Aerial Lifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 6 Dust Control Reduction 74%

BULLDOZING FUGITIVE DUST (ONSITE)

									Bulldozing EF (lb/hr)[1]						Daily Emissions (lb/day)[2,3]						Total Emissions (tons)					
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Hours per Workday**	**CalEEmod Equipment Type**	**# of Equipment**	**Daily Usage (hr/day)**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	Cranes	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	Pumps	3	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	Rough Terrain Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	Aerial Lifts	3	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	Air Compressors	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	Welders	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	Generator Sets	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Tractors/Loaders/Backhoes	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Skid Steer Loaders	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Pavers	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Surfacing Equipment	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Sweepers/Scrubbers	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Rollers	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	Aerial Lifts	4	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	Generator Sets	1	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	Air Compressors	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	Tractors/Loaders/Backhoes	1	6.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	Trenchers	1	6.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	Rollers	1	6.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanowen St/Van Nuys Blvd TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	Pumps	1	6.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanowen St/Van Nuys Blvd TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	Skid Steer Loaders	1	6.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanowen St/Van Nuys Blvd TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	Cranes	1	6.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnolia TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	Tractors/Loaders/Backhoes	1	6.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnolia TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	Trenchers	1	6.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnolia TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	Rollers	1	6.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnolia TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	Pumps	1	6.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnolia TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	Skid Steer Loaders	1	6.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnolia TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	Cranes	1	6.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	Tractors/Loaders/Backhoes	1	6.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	Trenchers	1	6.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	Rollers	1	6.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	Pumps	1	6.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	Skid Steer Loaders	1	6.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	Cranes	1	6.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	Excavators	2	6.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	Cranes	1	6.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	Rough Terrain Forklifts	1	6.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	Rollers	1	6.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	Pumps	2	6.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Grading	2/1/2033	7/31/2033	5	129	8	Excavators	2	6.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Grading	2/1/2033	7/31/2033	5	129	8	Tractors/Loaders/Backhoes	2	6.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Grading	2/1/2033	7/31/2033	5	129	8	Rollers	1	6.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	Cranes	2	6.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	Rough Terrain Forklifts	2	6.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	Aerial Lifts	6	6.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	Generator Sets	2	6.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	Air Compressors	4	6.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	Welders	4	6.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	Pumps	4	6.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	Skid Steer Loaders	2	6.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	Excavators	1	6.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	Tractors/Loaders/Backhoes	1	6.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	Pavers	2	6.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	Rollers	2	6.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	Sweepers/Scrubbers	1	6.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	Pumps	2	6.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Drainage/Utilties	5/1/2033	10/31/2033	5	131	8	Excavators	2	6.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Drainage/Utilties	5/1/2033	10/31/2033	5	131	8	Rollers	1	6.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Drainage/Utilties	5/1/2033	10/31/2033	5	131	8	Rough Terrain Forklifts	1	6.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 6

Dust Control Reduction 74%

BULLDOZING FUGITIVE DUST (ONSITE)

									Bulldozing EF (lb/hr)[1]						Daily Emissions (lb/day)[2,3]						Total Emissions (tons)					
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Hours per Workday**	**CalEEmod Equipment Type**	**# of Equipment**	**Daily Usage (hr/day)**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	Cranes	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	Rough Terrain Forklifts	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	Tractors/Loaders/Backhoes	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	Welders	2	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

1. Emission factor based on CalEEMod default value.
2. Emissions account for dust control reduction from water application 3 times per day.
3. Bulldozing emissions are only calculated for Rubber Tired Dozers which is consistent with CalEEMod methodology.

FD = Fugitive Dust

EXH = Exhaust

Sepulveda Transit Corridor Project - ALTERNATIVE 6

Dust Control Reduction 74%

GRADING FUGITIVE DUST (ONSITE)

													Grading EF (lb/VMT)[3]						Daily Emissions (lb/day)[4,5]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	Acres Graded per 8-hr day	Scaling Factor[1]	Acres per day	Daily VMT[2]	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
Segment 1-Westside-Ground Improvements	5/1/2031	8/31/2031	6	105	20	Bore/Drill Rigs	2	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Ground Improvements	5/1/2031	8/31/2031	6	105	20	Pumps	2	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	Cranes	2	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	Aerial Lifts	2	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	Rough Terrain Forklifts	2	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Tunnel Boring/Tunneling	9/1/2031	10/31/2032	6	366	20	Other Construction Equipm	2	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Tunnel Boring/Tunneling	9/1/2031	10/31/2032	6	366	20	Cranes	1	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Tunnel Boring/Tunneling	9/1/2031	10/31/2032	6	366	20	Rough Terrain Forklifts	2	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-TBM Retrieval/Tunnel Prep	11/1/2032	4/30/2033	6	156	20	Cranes	2	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-TBM Retrieval/Tunnel Prep	11/1/2032	4/30/2033	6	156	20	Aerial Lifts	2	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Annular Grouting	9/1/2031	10/31/2032	6	366	20	Bore/Drill Rigs	2	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Annular Grouting	9/1/2031	10/31/2032	6	366	20	Pumps	2	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Invert Construction	4/1/2034	7/31/2034	6	104	20	Pumps	2	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	Excavators	2	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	Pumps	2	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	Tractors/Loaders/Backhoes	2	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	Air Compressors	2	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Rail and Plinth	8/1/2034	1/31/2035	6	158	20	Pumps	1	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	Aerial Lifts	8	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	Rough Terrain Forklifts	2	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	Generator Sets	1	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	Aerial Lifts	4	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Ground Improvements	5/1/2031	8/31/2031	6	105	20	Bore/Drill Rigs	2	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Ground Improvements	5/1/2031	8/31/2031	6	105	20	Pumps	2	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	Cranes	2	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	Aerial Lifts	2	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	Rough Terrain Forklifts	2	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Tunnel Boring/Tunneling	9/1/2031	1/31/2034	6	758	20	Other Construction Equipm	2	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Tunnel Boring/Tunneling	9/1/2031	1/31/2034	6	758	20	Cranes	1	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Tunnel Boring/Tunneling	9/1/2031	1/31/2034	6	758	20	Rough Terrain Forklifts	2	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-TBM Retrieval/Tunnel Prep	2/1/2034	7/31/2034	6	155	20	Cranes	2	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-TBM Retrieval/Tunnel Prep	2/1/2034	7/31/2034	6	155	20	Aerial Lifts	2	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Annular Grouting	9/1/2031	1/31/2034	6	758	20	Bore/Drill Rigs	2	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Annular Grouting	9/1/2031	1/31/2034	6	758	20	Pumps	2	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Invert Construction	5/1/2035	2/28/2037	6	575	20	Pumps	2	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	Excavators	2	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	Pumps	2	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	Tractors/Loaders/Backhoes	2	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	Air Compressors	2	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Rail and Plinth	4/1/2036	3/31/2037	6	313	20	Pumps	1	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	Aerial Lifts	8	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	Rough Terrain Forklifts	2	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	Generator Sets	1	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	Aerial Lifts	4	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Ground Improvements	5/1/2031	8/31/2031	6	105	20	Bore/Drill Rigs	2	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Ground Improvements	5/1/2031	8/31/2031	6	105	20	Pumps	2	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	Cranes	2	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	Aerial Lifts	2	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	Rough Terrain Forklifts	2	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Tunnel Boring/Tunneling	9/1/2031	8/31/2032	6	314	20	Other Construction Equipm	2	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Tunnel Boring/Tunneling	9/1/2031	8/31/2032	6	314	20	Cranes	1	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Tunnel Boring/Tunneling	9/1/2031	8/31/2032	6	314	20	Rough Terrain Forklifts	2	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-TBM Retrieval/Tunnel Prep	9/1/2032	2/28/2033	6	155	20	Cranes	2	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-TBM Retrieval/Tunnel Prep	9/1/2032	2/28/2033	6	155	20	Aerial Lifts	2	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Annular Grouting	9/1/2031	8/31/2032	6	314	20	Bore/Drill Rigs	2	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Annular Grouting	9/1/2031	8/31/2032	6	314	20	Pumps	2	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Invert Construction	4/1/2034	5/31/2035	6	365	20	Pumps	2	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	Excavators	2	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	Pumps	2	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	Tractors/Loaders/Backhoes	2	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	Air Compressors	2	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Rail and Plinth	8/1/2034	9/30/2035	6	365	20	Pumps	1	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	Aerial Lifts	8	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	Rough Terrain Forklifts	2	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	Generator Sets	1	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	Aerial Lifts	4	17.0	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Site Preparation/Demolition	11/1/2031	12/31/2031	6	52	10	Tractors/Loaders/Backhoes	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Site Preparation/Demolition	11/1/2031	12/31/2031	6	52	10	Excavators	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	Tractors/Loaders/Backhoes	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	Pavers	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	Rollers	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	Excavators	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	Scrapers	1	8.5	1	8	1	1	1.54	-	1.54	0.17	-	0.17	0.29	-	0.29	0.03	-	0.03	0.02	-	0.02	0.00	-	0.00
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	Crawler Tractors	2	8.5	1	8	1	1	1.54	-	1.54	0.17	-	0.17	0.29	-	0.29	0.03	-	0.03	0.02	-	0.02	0.00	-	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 6

Dust Control Reduction 74%

GRADING FUGITIVE DUST (ONSITE)

													Grading EF (lb/VMT)[3]						Daily Emissions (lb/day)[4,5]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	Acres Graded per 8-hr day	Scaling Factor[1]	Acres per day	Daily VMT[2]	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
Mid Mountain Shaft-Drainage/Utilities	11/1/2031	12/31/2031	6	52	10	Excavators	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Drainage/Utilities	11/1/2031	12/31/2031	6	52	10	Pumps	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Drainage/Utilities	11/1/2031	12/31/2031	6	52	10	Rollers	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Shaft Drilling	1/1/2032	12/31/2032	6	314	10	Bore/Drill Rigs	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Shaft Drilling	1/1/2032	12/31/2032	6	314	10	Cranes	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Shaft Drilling	1/1/2032	12/31/2032	6	314	10	Tractors/Loaders/Backhoes	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Cavern and Adit	1/1/2033	12/31/2033	6	313	10	Excavators	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Cavern and Adit	1/1/2033	12/31/2033	6	313	10	Pumps	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Concrete/Industrial Saws	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Cranes	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Excavators	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Rough Terrain Forklifts	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Trenchers	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Rollers	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Cement and Mortar Mixers	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Pavers	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Surfacing Equipment	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Sweepers/Scrubbers	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	Tractors/Loaders/Backhoes	4	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	Excavators	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	Concrete/Industrial Saws	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	Skid Steer Loaders	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Grading	4/1/2029	6/30/2029	6	78	10	Crawler Tractors	2	8.5	1	8	1	1	1.54	-	1.54	0.17	-	0.17	0.29	-	0.29	0.03	-	0.03	0.01	-	0.01	0.00	-	0.00
Van Nuys Metrolink Station-Grading	4/1/2029	6/30/2029	6	78	10	Excavators	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Drainage	4/1/2029	7/31/2029	6	104	10	Excavators	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Drainage	4/1/2029	7/31/2029	6	104	10	Pumps	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Drainage	4/1/2029	7/31/2029	6	104	10	Rollers	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	Bore/Drill Rigs	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	Excavators	4	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	Rough Terrain Forklifts	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	Cranes	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	Pumps	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	Cranes	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	Excavators	6	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	Tractors/Loaders/Backhoes	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	Rough Terrain Forklifts	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	Aerial Lifts	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	Cranes	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	Pumps	3	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	Rough Terrain Forklifts	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	Aerial Lifts	3	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	Air Compressors	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	Welders	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	Generator Sets	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Tractors/Loaders/Backhoes	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Skid Steer Loaders	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Pavers	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Surfacing Equipment	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Sweepers/Scrubbers	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Rollers	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	Aerial Lifts	4	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	Generator Sets	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	Forklifts	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	Air Compressors	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Concrete/Industrial Saws	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Cranes	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Excavators	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Rough Terrain Forklifts	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Trenchers	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Rollers	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Cement and Mortar Mixers	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Pavers	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Surfacing Equipment	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Sweepers/Scrubbers	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	Tractors/Loaders/Backhoes	4	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	Excavators	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	Concrete/Industrial Saws	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	Skid Steer Loaders	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Grading	4/1/2029	6/30/2029	6	78	10	Crawler Tractors	2	8.5	1	8	1	1	1.54	-	1.54	0.17	-	0.17	0.29	-	0.29	0.03	-	0.03	0.01	-	0.01	0.00	-	0.00
Metro G Line Station-Grading	4/1/2029	6/30/2029	6	78	10	Excavators	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Drainage	4/1/2029	7/31/2029	6	104	10	Excavators	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Drainage	4/1/2029	7/31/2029	6	104	10	Pumps	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Drainage	4/1/2029	7/31/2029	6	104	10	Rollers	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-

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GRADING FUGITIVE DUST (ONSITE)

													Grading EF (lb/VMT)[3]						Daily Emissions (lb/day)[4,5]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	Acres Graded per 8-hr day	Scaling Factor[1]	Acres per day	Daily VMT[2]	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	Bore/Drill Rigs	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	Excavators	4	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	Rough Terrain Forklifts	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	Cranes	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	Pumps	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	Cranes	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	Excavators	6	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	Tractors/Loaders/Backhoes	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	Rough Terrain Forklifts	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	Aerial Lifts	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Cranes	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Pumps	3	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Rough Terrain Forklifts	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Aerial Lifts	3	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Air Compressors	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Welders	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Generator Sets	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Tractors/Loaders/Backhoes	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Skid Steer Loaders	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Pavers	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Surfacing Equipment	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Sweepers/Scrubbers	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Rollers	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	Aerial Lifts	4	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	Generator Sets	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	Forklifts	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	Air Compressors	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Concrete/Industrial Saws	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Cranes	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Excavators	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Rough Terrain Forklifts	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Trenchers	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Rollers	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Cement and Mortar Mixers	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Pavers	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Surfacing Equipment	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Sweepers/Scrubbers	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	Tractors/Loaders/Backhoes	4	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	Excavators	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	Concrete/Industrial Saws	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	Skid Steer Loaders	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Grading	4/1/2029	7/31/2029	6	104	10	Crawler Tractors	2	8.5	1	8	1	1	1.54	-	1.54	0.17	-	0.17	0.29	-	0.29	0.03	-	0.03	0.02	-	0.02	0.00	-	0.00
Ventura Blvd Station-Grading	4/1/2029	7/31/2029	6	104	10	Excavators	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Drainage	4/1/2029	6/30/2030	6	390	10	Excavators	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Drainage	4/1/2029	6/30/2030	6	390	10	Pumps	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Drainage	4/1/2029	6/30/2030	6	390	10	Rollers	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	Bore/Drill Rigs	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	Excavators	4	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	Rough Terrain Forklifts	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	Cranes	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	Pumps	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	Cranes	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	Excavators	6	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	Tractors/Loaders/Backhoes	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	Rough Terrain Forklifts	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	Aerial Lifts	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Cranes	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Pumps	3	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Rough Terrain Forklifts	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Aerial Lifts	3	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Air Compressors	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Welders	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Generator Sets	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	Tractors/Loaders/Backhoes	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	Skid Steer Loaders	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	Pavers	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	Surfacing Equipment	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	Sweepers/Scrubbers	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	Rollers	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	Aerial Lifts	4	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	Generator Sets	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	Forklifts	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	Air Compressors	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 6

Dust Control Reduction 74%

GRADING FUGITIVE DUST (ONSITE)

													Grading EF (lb/VMT)[3]						Daily Emissions (lb/day)[4,5]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	Acres Graded per 8-hr day	Scaling Factor[1]	Acres per day	Daily VMT[2]	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	Concrete/Industrial Saws	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	Cranes	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	Excavators	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	Rough Terrain Forklifts	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	Trenchers	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	Rollers	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	Cement and Mortar Mixers	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	Pavers	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	Surfacing Equipment	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	Sweepers/Scrubbers	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	Tractors/Loaders/Backhoes	4	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	Excavators	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	Concrete/Industrial Saws	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	Skid Steer Loaders	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Grading	4/1/2029	6/30/2029	6	78	10	Crawler Tractors	2	8.5	1	8	1	1	1.54	-	1.54	0.17	-	0.17	0.29	-	0.29	0.03	-	0.03	0.01	-	0.01	0.00	-	0.00
UCLA Station-Grading	4/1/2029	6/30/2029	6	78	10	Excavators	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Drainage	4/1/2029	12/31/2029	6	235	10	Excavators	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Drainage	4/1/2029	12/31/2029	6	235	10	Pumps	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Drainage	4/1/2029	12/31/2029	6	235	10	Rollers	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	Bore/Drill Rigs	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	Excavators	4	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	Rough Terrain Forklifts	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	Cranes	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	Pumps	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	Cranes	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	Excavators	6	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	Tractors/Loaders/Backhoes	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	Rough Terrain Forklifts	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	Aerial Lifts	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	Cranes	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	Pumps	3	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	Rough Terrain Forklifts	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	Aerial Lifts	3	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	Air Compressors	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	Welders	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	Generator Sets	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	Tractors/Loaders/Backhoes	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	Skid Steer Loaders	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	Pavers	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	Surfacing Equipment	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	Sweepers/Scrubbers	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	Rollers	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	Aerial Lifts	4	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	Generator Sets	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	Forklifts	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	Air Compressors	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Concrete/Industrial Saws	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Cranes	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Excavators	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Rough Terrain Forklifts	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Trenchers	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Rollers	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Cement and Mortar Mixers	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Pavers	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Surfacing Equipment	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Sweepers/Scrubbers	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolitic	4/1/2029	6/30/2029	6	78	10	Tractors/Loaders/Backhoes	4	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolitic	4/1/2029	6/30/2029	6	78	10	Excavators	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolitic	4/1/2029	6/30/2029	6	78	10	Concrete/Industrial Saws	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolitic	4/1/2029	6/30/2029	6	78	10	Skid Steer Loaders	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Grading	4/1/2029	6/30/2029	6	78	10	Crawler Tractors	2	8.5	1	8	1	1	1.54	-	1.54	0.17	-	0.17	0.29	-	0.29	0.03	-	0.03	0.01	-	0.01	0.00	-	0.00
Wilshire Blvd (Metro D Line) Station-Grading	4/1/2029	6/30/2029	6	78	10	Excavators	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Drainage	4/1/2029	3/31/2030	6	312	10	Excavators	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Drainage	4/1/2029	3/31/2030	6	312	10	Pumps	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Drainage	4/1/2029	3/31/2030	6	312	10	Rollers	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	Bore/Drill Rigs	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	Excavators	4	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	Rough Terrain Forklifts	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	Cranes	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	Pumps	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 6

Dust Control Reduction 74%

GRADING FUGITIVE DUST (ONSITE)

												Grading EF (lb/VMT)[3]						Daily Emissions (lb/day)[4,5]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	Acres Graded per 8-hr day	Scaling Factor[1]	Acres per day	Daily VMT[2]	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	Cranes	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	Excavators	6	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	Tractors/Loaders/Backhoes	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	Rough Terrain Forklifts	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	Aerial Lifts	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Cranes	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Pumps	3	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Rough Terrain Forklifts	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Aerial Lifts	3	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Air Compressors	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Welders	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Generator Sets	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Final Roadway Constructio	2/1/2036	5/31/2036	6	104	10	Tractors/Loaders/Backhoes	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Final Roadway Constructio	2/1/2036	5/31/2036	6	104	10	Skid Steer Loaders	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Final Roadway Constructio	2/1/2036	5/31/2036	6	104	10	Pavers	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Final Roadway Constructio	2/1/2036	5/31/2036	6	104	10	Surfacing Equipment	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Final Roadway Constructio	2/1/2036	5/31/2036	6	104	10	Sweepers/Scrubbers	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Final Roadway Constructio	2/1/2036	5/31/2036	6	104	10	Rollers	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testin	3/1/2035	2/29/2036	6	314	10	Aerial Lifts	4	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testin	3/1/2035	2/29/2036	6	314	10	Generator Sets	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testin	3/1/2035	2/29/2036	6	314	10	Forklifts	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testin	3/1/2035	2/29/2036	6	314	10	Air Compressors	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Concrete/Industrial Saws	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Cranes	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Excavators	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Rough Terrain Forklifts	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Trenchers	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Rollers	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Cement and Mortar Mixers	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Pavers	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Surfacing Equipment	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Sweepers/Scrubbers	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	Tractors/Loaders/Backhoes	4	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	Excavators	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	Concrete/Industrial Saws	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	Skid Steer Loaders	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Grading	4/1/2029	6/30/2029	6	78	10	Crawler Tractors	2	8.5	1	8	1	1	1.54	-	1.54	0.17	-	0.17	0.29	-	0.29	0.03	-	0.03	0.01	-	0.01	0.00	-	0.00
Santa Monica Blvd Station-Grading	4/1/2029	6/30/2029	6	78	10	Excavators	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Drainage	4/1/2029	7/31/2029	6	104	10	Excavators	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Drainage	4/1/2029	7/31/2029	6	104	10	Pumps	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Drainage	4/1/2029	7/31/2029	6	104	10	Rollers	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	Bore/Drill Rigs	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	Excavators	4	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	Rough Terrain Forklifts	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	Cranes	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	Pumps	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	Cranes	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	Excavators	6	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	Tractors/Loaders/Backhoes	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	Rough Terrain Forklifts	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	Aerial Lifts	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Cranes	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Pumps	3	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Rough Terrain Forklifts	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Aerial Lifts	3	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Air Compressors	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Welders	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Generator Sets	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Tractors/Loaders/Backhoes	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Skid Steer Loaders	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Pavers	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Surfacing Equipment	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Sweepers/Scrubbers	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Rollers	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	Aerial Lifts	4	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	Generator Sets	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	Forklifts	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	Air Compressors	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 6

Dust Control Reduction 74%

GRADING FUGITIVE DUST (ONSITE)

													Grading EF (lb/VMT)[3]						Daily Emissions (lb/day)[4,5]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	Acres Graded per 8-hr day	Scaling Factor[1]	Acres per day	Daily VMT[2]	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Concrete/Industrial Saws	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Cranes	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Excavators	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Rough Terrain Forklifts	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Trenchers	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Rollers	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Cement and Mortar Mixers	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Pavers	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Surfacing Equipment	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Sweepers/Scrubbers	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolitior	4/1/2029	6/30/2029	6	78	10	Tractors/Loaders/Backhoes	4	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolitior	4/1/2029	6/30/2029	6	78	10	Excavators	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolitior	4/1/2029	6/30/2029	6	78	10	Concrete/Industrial Saws	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolitior	4/1/2029	6/30/2029	6	78	10	Skid Steer Loaders	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Grading	4/1/2029	6/30/2029	6	78	10	Crawler Tractors	2	8.5	1	8	1	1	1.54	-	1.54	0.17	-	0.17	0.29	-	0.29	0.03	-	0.03	0.01	-	0.01	0.00	-	0.00
Metro E Line (Expo)/Bundy Station-Grading	4/1/2029	6/30/2029	6	78	10	Excavators	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Drainage	4/1/2029	7/31/2029	6	104	10	Excavators	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Drainage	4/1/2029	7/31/2029	6	104	10	Pumps	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Drainage	4/1/2029	7/31/2029	6	104	10	Rollers	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	Bore/Drill Rigs	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	Excavators	4	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	Rough Terrain Forklifts	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	Cranes	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	Pumps	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	Cranes	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	Excavators	6	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	Tractors/Loaders/Backhoes	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	Rough Terrain Forklifts	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	Aerial Lifts	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	Cranes	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	Pumps	3	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	Rough Terrain Forklifts	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	Aerial Lifts	3	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	Air Compressors	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	Welders	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	Generator Sets	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Tractors/Loaders/Backhoes	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Skid Steer Loaders	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Pavers	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Surfacing Equipment	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Sweepers/Scrubbers	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Rollers	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	Aerial Lifts	4	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	Generator Sets	1	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	Forklifts	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	Air Compressors	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	Tractors/Loaders/Backhoes	1	6.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	Trenchers	1	6.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	Rollers	1	6.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Vanowen St/Van Nuys Blvd TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	Pumps	1	6.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Vanowen St/Van Nuys Blvd TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	Skid Steer Loaders	1	6.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Vanowen St/Van Nuys Blvd TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	Cranes	1	6.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Magnolia TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	Tractors/Loaders/Backhoes	1	6.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Magnolia TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	Trenchers	1	6.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Magnolia TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	Rollers	1	6.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Magnolia TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	Pumps	1	6.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Magnolia TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	Skid Steer Loaders	1	6.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Magnolia TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	Cranes	1	6.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	Tractors/Loaders/Backhoes	1	6.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	Trenchers	1	6.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	Rollers	1	6.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	Pumps	1	6.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	Skid Steer Loaders	1	6.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	Cranes	1	6.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	Excavators	2	6.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	Cranes	1	6.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	Rough Terrain Forklifts	1	6.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	Rollers	1	6.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	Pumps	2	6.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Grading	2/1/2033	7/31/2033	5	129	8	Excavators	2	6.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Grading	2/1/2033	7/31/2033	5	129	8	Tractors/Loaders/Backhoes	2	6.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Grading	2/1/2033	7/31/2033	5	129	8	Rollers	1	6.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 6

Dust Control Reduction 74%

GRADING FUGITIVE DUST (ONSITE)

												Grading EF (lb/VMT)[3]						Daily Emissions (lb/day)[4,5]						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	CalEEmod Equipment Type	# of Equipment	Daily Usage (hr/day)	Acres Graded per 8-hr day	Scaling Factor[1]	Acres per day	Daily VMT[2]	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	Cranes	2	6.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	Rough Terrain Forklifts	2	6.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	Aerial Lifts	6	6.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	Generator Sets	2	6.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	Air Compressors	4	6.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	Welders	4	6.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	Pumps	4	6.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	Skid Steer Loaders	2	6.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	Excavators	1	6.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	Tractors/Loaders/Backhoes	1	6.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	Pavers	2	6.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	Rollers	2	6.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	Sweepers/Scrubbers	1	6.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	Pumps	2	6.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Drainage/Utilties	5/1/2033	10/31/2033	5	131	8	Excavators	2	6.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Drainage/Utilties	5/1/2033	10/31/2033	5	131	8	Rollers	1	6.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Drainage/Utilties	5/1/2033	10/31/2033	5	131	8	Rough Terrain Forklifts	1	6.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	Cranes	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	Rough Terrain Forklifts	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	Tractors/Loaders/Backhoes	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	Welders	2	8.5	-	8	-	-	1.54	-	1.54	0.17	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

1. CalEEMod provides the amount of acres that can be graded per 8-hours. The scaling factor is included in case equipment would operate more or less than 8 hours, thus, the amount of area to be graded would be adjusted.
2. Grading VMT based on methodology from CalEEMod which accounts for bladewidth of grading equipment and the amount of area grading equipment can complete in 8-hour day.
3. Emission factor based on CalEEMod default value.
4. Emissions account for dust control reduction from water application 3 times per day.
5. Grading emissions are only calculated for the following equipment types: Crawler Tractors, Graders, Rubber Tired Dozers, and Scrapers. This approach is consistent with CalEEMod methodology.
6. Some equipment may not operate for the full duration of the phase. For these instances, the number of months equipment would operate are

FD = Fugitive Dust

EXH = Exhaust

Sepulveda Transit Corridor Project - ALTERNATIVE 6

WORKER VEHICLES (OFFSITE)

											Running Emission Factor (g/mile)[1,2]													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Workers per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Westside-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Worker	6	12	20.0	0.01	0.06	0.88	0.00	0.32	0.00	0.32	0.08	0.00	0.08	312.6	0.00	0.01
Segment 1-Westside-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Worker	30	60	20.0	0.01	0.06	0.88	0.00	0.32	0.00	0.32	0.08	0.00	0.08	312.6	0.00	0.01
Segment 1-Westside-Tunnel Boring/Tunneling	9/1/2031	10/31/2032	6	366	20	2031	Worker	50	100	20.0	0.01	0.06	0.88	0.00	0.32	0.00	0.32	0.08	0.00	0.08	312.6	0.00	0.01
Segment 1-Westside-TBM Retrieval/Tunnel Prep	11/1/2032	4/30/2033	6	156	20	2032	Worker	20	40	20.0	0.01	0.05	0.83	0.00	0.32	0.00	0.32	0.08	0.00	0.08	310.2	0.00	0.01
Segment 1-Westside-Annular Grouting	9/1/2031	10/31/2032	6	366	20	2031	Worker	10	20	20.0	0.01	0.06	0.88	0.00	0.32	0.00	0.32	0.08	0.00	0.08	312.6	0.00	0.01
Segment 1-Westside-Invert Construction	4/1/2034	7/31/2034	6	104	20	2034	Worker	30	60	20.0	0.01	0.04	0.75	0.00	0.32	0.00	0.32	0.08	0.00	0.08	305.8	0.00	0.00
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	2033	Worker	20	40	20.0	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.9	0.00	0.00
Segment 1-Westside-Rail and Plinth	8/1/2034	1/31/2035	6	158	20	2034	Worker	20	40	20.0	0.01	0.04	0.75	0.00	0.32	0.00	0.32	0.08	0.00	0.08	305.8	0.00	0.00
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Worker	20	40	20.0	0.01	0.04	0.72	0.00	0.32	0.00	0.32	0.08	0.00	0.08	304.0	0.00	0.00
Segment 2-Mountain-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Worker	30	60	20.0	0.01	0.06	0.88	0.00	0.32	0.00	0.32	0.08	0.00	0.08	312.6	0.00	0.01
Segment 2-Mountain-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Worker	30	60	20.0	0.01	0.06	0.88	0.00	0.32	0.00	0.32	0.08	0.00	0.08	312.6	0.00	0.01
Segment 2-Mountain-Tunnel Boring/Tunneling	9/1/2031	1/31/2034	6	758	20	2031	Worker	50	100	20.0	0.01	0.06	0.88	0.00	0.32	0.00	0.32	0.08	0.00	0.08	312.6	0.00	0.01
Segment 2-Mountain-TBM Retrieval/Tunnel Prep	2/1/2034	7/31/2034	6	155	20	2034	Worker	20	40	20.0	0.01	0.04	0.75	0.00	0.32	0.00	0.32	0.08	0.00	0.08	305.8	0.00	0.00
Segment 2-Mountain-Annular Grouting	9/1/2031	1/31/2034	6	758	20	2031	Worker	10	20	20.0	0.01	0.06	0.88	0.00	0.32	0.00	0.32	0.08	0.00	0.08	312.6	0.00	0.01
Segment 2-Mountain-Invert Construction	5/1/2035	2/28/2037	6	575	20	2035	Worker	30	60	20.0	0.01	0.04	0.72	0.00	0.32	0.00	0.32	0.08	0.00	0.08	304.0	0.00	0.00
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	2034	Worker	20	40	20.0	0.01	0.04	0.75	0.00	0.32	0.00	0.32	0.08	0.00	0.08	305.8	0.00	0.00
Segment 2-Mountain-Rail and Plinth	4/1/2036	3/31/2037	6	313	20	2036	Worker	20	40	20.0	0.01	0.04	0.69	0.00	0.32	0.00	0.32	0.08	0.00	0.08	302.4	0.00	0.00
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	2036	Worker	20	40	20.0	0.01	0.04	0.69	0.00	0.32	0.00	0.32	0.08	0.00	0.08	302.4	0.00	0.00
Segment 3-Valley-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Worker	6	12	20.0	0.01	0.06	0.88	0.00	0.32	0.00	0.32	0.08	0.00	0.08	312.6	0.00	0.01
Segment 3-Valley-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Worker	30	60	20.0	0.01	0.06	0.88	0.00	0.32	0.00	0.32	0.08	0.00	0.08	312.6	0.00	0.01
Segment 3-Valley-Tunnel Boring/Tunneling	9/1/2031	8/31/2032	6	314	20	2031	Worker	50	100	20.0	0.01	0.06	0.88	0.00	0.32	0.00	0.32	0.08	0.00	0.08	312.6	0.00	0.01
Segment 3-Valley-TBM Retrieval/Tunnel Prep	9/1/2032	2/28/2033	6	155	20	2032	Worker	20	40	20.0	0.01	0.05	0.83	0.00	0.32	0.00	0.32	0.08	0.00	0.08	310.2	0.00	0.01
Segment 3-Valley-Annular Grouting	9/1/2031	8/31/2032	6	314	20	2031	Worker	10	20	20.0	0.01	0.06	0.88	0.00	0.32	0.00	0.32	0.08	0.00	0.08	312.6	0.00	0.01
Segment 3-Valley-Invert Construction	4/1/2034	5/31/2035	6	365	20	2034	Worker	30	60	20.0	0.01	0.04	0.75	0.00	0.32	0.00	0.32	0.08	0.00	0.08	305.8	0.00	0.00
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	2032	Worker	20	40	20.0	0.01	0.05	0.83	0.00	0.32	0.00	0.32	0.08	0.00	0.08	310.2	0.00	0.01
Segment 3-Valley-Rail and Plinth	8/1/2034	9/30/2035	6	365	20	2034	Worker	20	40	20.0	0.01	0.04	0.75	0.00	0.32	0.00	0.32	0.08	0.00	0.08	305.8	0.00	0.00
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Worker	20	40	20.0	0.01	0.04	0.72	0.00	0.32	0.00	0.32	0.08	0.00	0.08	304.0	0.00	0.00
Mid Mountain Shaft-Site Preparation/Demolition	11/1/2031	12/31/2031	6	52	10	2031	Worker	20	40	20.0	0.01	0.06	0.88	0.00	0.32	0.00	0.32	0.08	0.00	0.08	312.6	0.00	0.01
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	2031	Worker	20	40	20.0	0.01	0.06	0.88	0.00	0.32	0.00	0.32	0.08	0.00	0.08	312.6	0.00	0.01
Mid Mountain Shaft-Drainage/Utilities	11/1/2031	12/31/2031	6	52	10	2031	Worker	6	12	20.0	0.01	0.06	0.88	0.00	0.32	0.00	0.32	0.08	0.00	0.08	312.6	0.00	0.01
Mid Mountain Shaft-Shaft Drilling	1/1/2032	12/31/2032	6	314	10	2032	Worker	20	40	20.0	0.01	0.05	0.83	0.00	0.32	0.00	0.32	0.08	0.00	0.08	310.2	0.00	0.01
Mid Mountain Shaft-Shaft Lining	1/1/2032	12/31/2032	6	314	10	2032	Worker	20	40	20.0	0.01	0.05	0.83	0.00	0.32	0.00	0.32	0.08	0.00	0.08	310.2	0.00	0.01
Mid Mountain Shaft-Cavern and Adit	1/1/2033	12/31/2033	6	313	10	2033	Worker	20	40	20.0	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.9	0.00	0.00
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Worker	50	100	20.0	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.2	0.00	0.01
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Worker	20	40	20.0	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.2	0.00	0.01
Van Nuys Metrolink Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Worker	5	10	20.0	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.2	0.00	0.01
Van Nuys Metrolink Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Worker	40	80	20.0	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.2	0.00	0.01
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Worker	40	80	20.0	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.2	0.00	0.01
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Worker	20	40	20.0	0.01	0.06	0.94	0.00	0.32	0.00	0.32	0.08	0.00	0.08	315.3	0.00	0.01
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Worker	60	120	20.0	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.9	0.00	0.00
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Worker	20	40	20.0	0.01	0.04	0.69	0.00	0.32	0.00	0.32	0.08	0.00	0.08	302.4	0.00	0.00
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Worker	20	40	20.0	0.01	0.04	0.72	0.00	0.32	0.00	0.32	0.08	0.00	0.08	304.0	0.00	0.00
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Worker	50	100	20.0	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.2	0.00	0.01
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Worker	20	40	20.0	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.2	0.00	0.01
Metro G Line Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Worker	5	10	20.0	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.2	0.00	0.01
Metro G Line Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Worker	40	80	20.0	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.2	0.00	0.01
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Worker	40	80	20.0	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.2	0.00	0.01
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Worker	20	40	20.0	0.01	0.06	0.94	0.00	0.32	0.00	0.32	0.08	0.00	0.08	315.3	0.00	0.01
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Worker	60	120	20.0	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.9	0.00	0.00
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Worker	20	40	20.0	0.01	0.04	0.69	0.00	0.32	0.00	0.32	0.08	0.00	0.08	302.4	0.00	0.00
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Worker	20	40	20.0	0.01	0.04	0.72	0.00	0.32	0.00	0.32	0.08	0.00	0.08	304.0	0.00	0.00
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Worker	50	100	20.0	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.2	0.00	0.01
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	2029	Worker	20	40	20.0	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.2	0.00	0.01
Ventura Blvd Station-Grading	4/1/2029	7/31/2029	6	104	10	2029	Worker	5	10	20.0	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.2	0.00	0.01
Ventura Blvd Station-Drainage	4/1/2029	6/30/2030	6	390	10	2029	Worker	40	80	20.0	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.2	0.00	0.01
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	2030	Worker	40	80	20.0	0.01	0.06	0.94	0.00	0.32	0.00	0.32	0.08	0.00	0.08	315.3	0.00	0.01
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	2031	Worker	20	40	20.0	0.01	0.06	0.88	0.00	0.32	0.00	0.32	0.08	0.00	0.08	312.6	0.00	0.01
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Worker	60	120	20.0	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.9	0.00	0.00
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	2036	Worker	20	40	20.0	0.01	0.04	0.69	0.00	0.32	0.00	0.32	0.08	0.00	0.08	302.4	0.00	0.00
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Worker	20	40	20.0	0.01	0.04	0.72	0.00	0.32	0.00	0.32	0.08	0.00	0.08	304.0	0.00	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 6

WORKER VEHICLES (OFFSITE)

											Non-Running Emission Factor (g/trip)[1,3]													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Workers per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Westside-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Worker	6	12	20.0	1.07	0.25	2.88	0.001	-	0.002	0.002	-	0.002	0.002	76.4	0.06	0.03
Segment 1-Westside-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Worker	30	60	20.0	1.07	0.25	2.88	0.001	-	0.002	0.002	-	0.002	0.002	76.4	0.06	0.03
Segment 1-Westside-Tunnel Boring/Tunneling	9/1/2031	10/31/2032	6	366	20	2031	Worker	50	100	20.0	1.07	0.25	2.88	0.001	-	0.002	0.002	-	0.002	0.002	76.4	0.06	0.03
Segment 1-Westside-TBM Retrieval/Tunnel Prep	11/1/2032	4/30/2033	6	156	20	2032	Worker	20	40	20.0	1.02	0.24	2.73	0.001	-	0.002	0.002	-	0.002	0.002	75.5	0.06	0.03
Segment 1-Westside-Annular Grouting	9/1/2031	10/31/2032	6	366	20	2031	Worker	10	20	20.0	1.07	0.25	2.88	0.001	-	0.002	0.002	-	0.002	0.002	76.4	0.06	0.03
Segment 1-Westside-Invert Construction	4/1/2034	7/31/2034	6	104	20	2034	Worker	30	60	20.0	0.92	0.22	2.45	0.001	-	0.002	0.002	-	0.001	0.001	73.9	0.05	0.03
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	2033	Worker	20	40	20.0	0.98	0.23	2.59	0.001	-	0.002	0.002	-	0.002	0.002	74.6	0.05	0.03
Segment 1-Westside-Rail and Plinth	8/1/2034	1/31/2035	6	158	20	2034	Worker	20	40	20.0	0.92	0.22	2.45	0.001	-	0.002	0.002	-	0.001	0.001	73.9	0.05	0.03
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Worker	20	40	20.0	0.91	0.21	2.33	0.001	-	0.001	0.001	-	0.001	0.001	73.1	0.05	0.03
Segment 2-Mountain-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Worker	30	60	20.0	1.07	0.25	2.88	0.001	-	0.002	0.002	-	0.002	0.002	76.4	0.06	0.03
Segment 2-Mountain-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Worker	30	60	20.0	1.07	0.25	2.88	0.001	-	0.002	0.002	-	0.002	0.002	76.4	0.06	0.03
Segment 2-Mountain-Tunnel Boring/Tunneling	9/1/2031	1/31/2034	6	758	20	2031	Worker	50	100	20.0	1.07	0.25	2.88	0.001	-	0.002	0.002	-	0.002	0.002	76.4	0.06	0.03
Segment 2-Mountain-TBM Retrieval/Tunnel Prep	2/1/2034	7/31/2034	6	155	20	2034	Worker	20	40	20.0	0.92	0.22	2.45	0.001	-	0.002	0.002	-	0.001	0.001	73.9	0.05	0.03
Segment 2-Mountain-Annular Grouting	9/1/2031	1/31/2034	6	758	20	2031	Worker	10	20	20.0	1.07	0.25	2.88	0.001	-	0.002	0.002	-	0.002	0.002	76.4	0.06	0.03
Segment 2-Mountain-Invert Construction	5/1/2035	2/28/2037	6	575	20	2035	Worker	30	60	20.0	0.91	0.21	2.33	0.001	-	0.001	0.001	-	0.001	0.001	73.1	0.05	0.03
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	2034	Worker	20	40	20.0	0.92	0.22	2.45	0.001	-	0.002	0.002	-	0.001	0.001	73.9	0.05	0.03
Segment 2-Mountain-Rail and Plinth	4/1/2036	3/31/2037	6	313	20	2036	Worker	20	40	20.0	0.89	0.21	2.23	0.001	-	0.001	0.001	-	0.001	0.001	72.5	0.05	0.03
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	2036	Worker	20	40	20.0	0.89	0.21	2.23	0.001	-	0.001	0.001	-	0.001	0.001	72.5	0.05	0.03
Segment 3-Valley-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Worker	6	12	20.0	1.07	0.25	2.88	0.001	-	0.002	0.002	-	0.002	0.002	76.4	0.06	0.03
Segment 3-Valley-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Worker	30	60	20.0	1.07	0.25	2.88	0.001	-	0.002	0.002	-	0.002	0.002	76.4	0.06	0.03
Segment 3-Valley-Tunnel Boring/Tunneling	9/1/2031	8/31/2032	6	314	20	2031	Worker	50	100	20.0	1.07	0.25	2.88	0.001	-	0.002	0.002	-	0.002	0.002	76.4	0.06	0.03
Segment 3-Valley-TBM Retrieval/Tunnel Prep	9/1/2032	2/28/2033	6	155	20	2032	Worker	20	40	20.0	1.02	0.24	2.73	0.001	-	0.002	0.002	-	0.002	0.002	75.5	0.06	0.03
Segment 3-Valley-Annular Grouting	9/1/2031	8/31/2032	6	314	20	2031	Worker	10	20	20.0	1.07	0.25	2.88	0.001	-	0.002	0.002	-	0.002	0.002	76.4	0.06	0.03
Segment 3-Valley-Invert Construction	4/1/2034	5/31/2035	6	365	20	2034	Worker	30	60	20.0	0.92	0.22	2.45	0.001	-	0.002	0.002	-	0.001	0.001	73.9	0.05	0.03
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	2032	Worker	20	40	20.0	1.02	0.24	2.73	0.001	-	0.002	0.002	-	0.002	0.002	75.5	0.06	0.03
Segment 3-Valley-Rail and Plinth	8/1/2034	9/30/2035	6	365	20	2034	Worker	20	40	20.0	0.92	0.22	2.45	0.001	-	0.002	0.002	-	0.001	0.001	73.9	0.05	0.03
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Worker	20	40	20.0	0.91	0.21	2.33	0.001	-	0.001	0.001	-	0.001	0.001	73.1	0.05	0.03
Mid Mountain Shaft-Site Preparation/Demolition	11/1/2031	12/31/2031	6	52	10	2031	Worker	20	40	20.0	1.07	0.25	2.88	0.001	-	0.002	0.002	-	0.002	0.002	76.4	0.06	0.03
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	2031	Worker	20	40	20.0	1.07	0.25	2.88	0.001	-	0.002	0.002	-	0.002	0.002	76.4	0.06	0.03
Mid Mountain Shaft-Drainage/Utilities	11/1/2031	12/31/2031	6	52	10	2031	Worker	6	12	20.0	1.07	0.25	2.88	0.001	-	0.002	0.002	-	0.002	0.002	76.4	0.06	0.03
Mid Mountain Shaft-Shaft Drilling	1/1/2032	12/31/2032	6	314	10	2032	Worker	20	40	20.0	1.02	0.24	2.73	0.001	-	0.002	0.002	-	0.002	0.002	75.5	0.06	0.03
Mid Mountain Shaft-Shaft Lining	1/1/2032	12/31/2032	6	314	10	2032	Worker	20	40	20.0	1.02	0.24	2.73	0.001	-	0.002	0.002	-	0.002	0.002	75.5	0.06	0.03
Mid Mountain Shaft-Cavern and Adit	1/1/2033	12/31/2033	6	313	10	2033	Worker	20	40	20.0	0.98	0.23	2.59	0.001	-	0.002	0.002	-	0.002	0.002	74.6	0.05	0.03
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Worker	50	100	20.0	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.3	0.07	0.03
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Worker	20	40	20.0	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.3	0.07	0.03
Van Nuys Metrolink Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Worker	5	10	20.0	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.3	0.07	0.03
Van Nuys Metrolink Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Worker	40	80	20.0	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.3	0.07	0.03
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Worker	40	80	20.0	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.3	0.07	0.03
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Worker	20	40	20.0	1.13	0.26	3.06	0.001	-	0.002	0.002	-	0.002	0.002	77.3	0.06	0.03
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Worker	60	120	20.0	0.98	0.23	2.59	0.001	-	0.002	0.002	-	0.002	0.002	74.6	0.05	0.03
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Worker	20	40	20.0	0.89	0.21	2.23	0.001	-	0.001	0.001	-	0.001	0.001	72.5	0.05	0.03
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Worker	20	40	20.0	0.91	0.21	2.33	0.001	-	0.001	0.001	-	0.001	0.001	73.1	0.05	0.03
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Worker	50	100	20.0	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.3	0.07	0.03
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Worker	20	40	20.0	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.3	0.07	0.03
Metro G Line Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Worker	5	10	20.0	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.3	0.07	0.03
Metro G Line Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Worker	40	80	20.0	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.3	0.07	0.03
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Worker	40	80	20.0	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.3	0.07	0.03
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Worker	20	40	20.0	1.13	0.26	3.06	0.001	-	0.002	0.002	-	0.002	0.002	77.3	0.06	0.03
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Worker	60	120	20.0	0.98	0.23	2.59	0.001	-	0.002	0.002	-	0.002	0.002	74.6	0.05	0.03
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Worker	20	40	20.0	0.89	0.21	2.23	0.001	-	0.001	0.001	-	0.001	0.001	72.5	0.05	0.03
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Worker	20	40	20.0	0.91	0.21	2.33	0.001	-	0.001	0.001	-	0.001	0.001	73.1	0.05	0.03
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Worker	50	100	20.0	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.3	0.07	0.03
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	2029	Worker	20	40	20.0	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.3	0.07	0.03
Ventura Blvd Station-Grading	4/1/2029	7/31/2029	6	104	10	2029	Worker	5	10	20.0	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.3	0.07	0.03
Ventura Blvd Station-Drainage	4/1/2029	6/30/2030	6	390	10	2029	Worker	40	80	20.0	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.3	0.07	0.03
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	2030	Worker	40	80	20.0	1.13	0.26	3.06	0.001	-	0.002	0.002	-	0.002	0.002	77.3	0.06	0.03
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	2031	Worker	20	40	20.0	1.07	0.25	2.88	0.001	-	0.002	0.002	-	0.002	0.002	76.4	0.06	0.03
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Worker	60	120	20.0	0.98	0.23	2.59	0.001	-	0.002	0.002	-	0.002	0.002	74.6	0.05	0.03
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	2036	Worker	20	40	20.0	0.89	0.21	2.23	0.001	-	0.001	0.001	-	0.001	0.001	72.5	0.05	0.03
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Worker	20	40	20.0	0.91	0.21	2.33	0.001	-	0.001	0.001	-	0.001	0.001	73.1	0.05	0.03

Sepulveda Transit Corridor Project - ALTERNATIVE 6

WORKER VEHICLES (OFFSITE)

											Daily Emissions (lb/day)													
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Hours per Workday**	**EF Year**	**Trip Type**	**Workers per Day**	**Total One-Way Trips per Day**	**One-Way Trip Length (mi)**	**ROG**	**NO_X**	**CO**	**SO_X**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**	**CO_2**	**CH_4**	**N_2O**
Segment 1-Westside-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Worker	6	12	20.0	0.04	0.04	0.54	0.00	0.17	0.00	0.17	0.04	0.00	0.04	167.4	0.00	0.00
Segment 1-Westside-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Worker	30	60	20.0	0.18	0.18	2.71	0.01	0.84	0.00	0.84	0.21	0.00	0.22	837.1	0.02	0.02
Segment 1-Westside-Tunnel Boring/Tunneling	9/1/2031	10/31/2032	6	366	20	2031	Worker	50	100	20.0	0.29	0.30	4.52	0.01	1.40	0.01	1.41	0.35	0.01	0.36	1395.2	0.03	0.03
Segment 1-Westside-TBM Retrieval/Tunnel Prep	11/1/2032	4/30/2033	6	156	20	2032	Worker	20	40	20.0	0.11	0.11	1.71	0.01	0.56	0.00	0.56	0.14	0.00	0.14	553.7	0.01	0.01
Segment 1-Westside-Annular Grouting	9/1/2031	10/31/2032	6	366	20	2031	Worker	10	20	20.0	0.06	0.06	0.90	0.00	0.28	0.00	0.28	0.07	0.00	0.07	279.0	0.01	0.01
Segment 1-Westside-Invert Construction	4/1/2034	7/31/2034	6	104	20	2034	Worker	30	60	20.0	0.15	0.14	2.32	0.01	0.84	0.00	0.84	0.21	0.00	0.22	818.9	0.01	0.02
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	2033	Worker	20	40	20.0	0.10	0.10	1.63	0.00	0.56	0.00	0.56	0.14	0.00	0.14	549.7	0.01	0.01
Segment 1-Westside-Rail and Plinth	8/1/2034	1/31/2035	6	158	20	2034	Worker	20	40	20.0	0.10	0.09	1.54	0.00	0.56	0.00	0.56	0.14	0.00	0.14	545.9	0.01	0.01
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Worker	20	40	20.0	0.09	0.09	1.48	0.00	0.56	0.00	0.56	0.14	0.00	0.14	542.7	0.01	0.01
Segment 2-Mountain-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Worker	30	60	20.0	0.18	0.18	2.71	0.01	0.84	0.00	0.84	0.21	0.00	0.22	837.1	0.02	0.02
Segment 2-Mountain-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Worker	30	60	20.0	0.18	0.18	2.71	0.01	0.84	0.00	0.84	0.21	0.00	0.22	837.1	0.02	0.02
Segment 2-Mountain-Tunnel Boring/Tunneling	9/1/2031	1/31/2034	6	758	20	2031	Worker	50	100	20.0	0.29	0.30	4.52	0.01	1.40	0.01	1.41	0.35	0.01	0.36	1395.2	0.03	0.03
Segment 2-Mountain-TBM Retrieval/Tunnel Prep	2/1/2034	7/31/2034	6	155	20	2034	Worker	20	40	20.0	0.10	0.09	1.54	0.00	0.56	0.00	0.56	0.14	0.00	0.14	545.9	0.01	0.01
Segment 2-Mountain-Annular Grouting	9/1/2031	1/31/2034	6	758	20	2031	Worker	10	20	20.0	0.06	0.06	0.90	0.00	0.28	0.00	0.28	0.07	0.00	0.07	279.0	0.01	0.01
Segment 2-Mountain-Invert Construction	5/1/2035	2/28/2037	6	575	20	2035	Worker	30	60	20.0	0.14	0.13	2.22	0.01	0.84	0.00	0.84	0.21	0.00	0.22	814.0	0.01	0.02
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	2034	Worker	20	40	20.0	0.10	0.09	1.54	0.00	0.56	0.00	0.56	0.14	0.00	0.14	545.9	0.01	0.01
Segment 2-Mountain-Rail and Plinth	4/1/2036	3/31/2037	6	313	20	2036	Worker	20	40	20.0	0.09	0.08	1.42	0.00	0.56	0.00	0.56	0.14	0.00	0.14	539.8	0.01	0.01
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	2036	Worker	20	40	20.0	0.09	0.08	1.42	0.00	0.56	0.00	0.56	0.14	0.00	0.14	539.8	0.01	0.01
Segment 3-Valley-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Worker	6	12	20.0	0.04	0.04	0.54	0.00	0.17	0.00	0.17	0.04	0.00	0.04	167.4	0.00	0.00
Segment 3-Valley-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Worker	30	60	20.0	0.18	0.18	2.71	0.01	0.84	0.00	0.84	0.21	0.00	0.22	837.1	0.02	0.02
Segment 3-Valley-Tunnel Boring/Tunneling	9/1/2031	8/31/2032	6	314	20	2031	Worker	50	100	20.0	0.29	0.30	4.52	0.01	1.40	0.01	1.41	0.35	0.01	0.36	1395.2	0.03	0.03
Segment 3-Valley-TBM Retrieval/Tunnel Prep	9/1/2032	2/28/2033	6	155	20	2032	Worker	20	40	20.0	0.11	0.11	1.71	0.01	0.56	0.00	0.56	0.14	0.00	0.14	553.7	0.01	0.01
Segment 3-Valley-Annular Grouting	9/1/2031	8/31/2032	6	314	20	2031	Worker	10	20	20.0	0.06	0.06	0.90	0.00	0.28	0.00	0.28	0.07	0.00	0.07	279.0	0.01	0.01
Segment 3-Valley-Invert Construction	4/1/2034	5/31/2035	6	365	20	2034	Worker	30	60	20.0	0.15	0.14	2.32	0.01	0.84	0.00	0.84	0.21	0.00	0.22	818.9	0.01	0.02
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	2032	Worker	20	40	20.0	0.11	0.11	1.71	0.01	0.56	0.00	0.56	0.14	0.00	0.14	553.7	0.01	0.01
Segment 3-Valley-Rail and Plinth	8/1/2034	9/30/2035	6	365	20	2034	Worker	20	40	20.0	0.10	0.09	1.54	0.00	0.56	0.00	0.56	0.14	0.00	0.14	545.9	0.01	0.01
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Worker	20	40	20.0	0.09	0.09	1.48	0.00	0.56	0.00	0.56	0.14	0.00	0.14	542.7	0.01	0.01
Mid Mountain Shaft-Site Preparation/Demolition	11/1/2031	12/31/2031	6	52	10	2031	Worker	20	40	20.0	0.12	0.12	1.81	0.01	0.56	0.00	0.56	0.14	0.00	0.14	558.1	0.01	0.01
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	2031	Worker	20	40	20.0	0.12	0.12	1.81	0.01	0.56	0.00	0.56	0.14	0.00	0.14	558.1	0.01	0.01
Mid Mountain Shaft-Drainage/Utilities	11/1/2031	12/31/2031	6	52	10	2031	Worker	6	12	20.0	0.04	0.04	0.54	0.00	0.17	0.00	0.17	0.04	0.00	0.04	167.4	0.00	0.00
Mid Mountain Shaft-Shaft Drilling	1/1/2032	12/31/2032	6	314	10	2032	Worker	20	40	20.0	0.11	0.11	1.71	0.01	0.56	0.00	0.56	0.14	0.00	0.14	553.7	0.01	0.01
Mid Mountain Shaft-Shaft Lining	1/1/2032	12/31/2032	6	314	10	2032	Worker	20	40	20.0	0.11	0.11	1.71	0.01	0.56	0.00	0.56	0.14	0.00	0.14	553.7	0.01	0.01
Mid Mountain Shaft-Cavern and Adit	1/1/2033	12/31/2033	6	313	10	2033	Worker	20	40	20.0	0.10	0.10	1.63	0.00	0.56	0.00	0.56	0.14	0.00	0.14	549.7	0.01	0.01
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Worker	50	100	20.0	0.33	0.37	5.09	0.01	1.40	0.01	1.41	0.35	0.01	0.36	1420.1	0.03	0.03
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Worker	20	40	20.0	0.13	0.15	2.04	0.01	0.56	0.00	0.56	0.14	0.00	0.14	568.1	0.01	0.01
Van Nuys Metrolink Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Worker	5	10	20.0	0.03	0.04	0.51	0.00	0.14	0.00	0.14	0.04	0.00	0.04	142.0	0.00	0.00
Van Nuys Metrolink Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Worker	40	80	20.0	0.27	0.30	4.07	0.01	1.12	0.01	1.13	0.28	0.01	0.29	1136.1	0.03	0.03
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Worker	40	80	20.0	0.27	0.30	4.07	0.01	1.12	0.01	1.13	0.28	0.01	0.29	1136.1	0.03	0.03
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Worker	20	40	20.0	0.13	0.13	1.92	0.01	0.56	0.00	0.56	0.14	0.00	0.14	562.9	0.01	0.01
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Worker	60	120	20.0	0.31	0.30	4.88	0.01	1.68	0.01	1.69	0.43	0.01	0.43	1649.0	0.03	0.03
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Worker	20	40	20.0	0.09	0.08	1.42	0.00	0.56	0.00	0.56	0.14	0.00	0.14	539.8	0.01	0.01
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Worker	20	40	20.0	0.09	0.09	1.48	0.00	0.56	0.00	0.56	0.14	0.00	0.14	542.7	0.01	0.01
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Worker	50	100	20.0	0.33	0.37	5.09	0.01	1.40	0.01	1.41	0.35	0.01	0.36	1420.1	0.03	0.03
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Worker	20	40	20.0	0.13	0.15	2.04	0.01	0.56	0.00	0.56	0.14	0.00	0.14	568.1	0.01	0.01
Metro G Line Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Worker	5	10	20.0	0.03	0.04	0.51	0.00	0.14	0.00	0.14	0.04	0.00	0.04	142.0	0.00	0.00
Metro G Line Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Worker	40	80	20.0	0.27	0.30	4.07	0.01	1.12	0.01	1.13	0.28	0.01	0.29	1136.1	0.03	0.03
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Worker	40	80	20.0	0.27	0.30	4.07	0.01	1.12	0.01	1.13	0.28	0.01	0.29	1136.1	0.03	0.03
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Worker	20	40	20.0	0.13	0.13	1.92	0.01	0.56	0.00	0.56	0.14	0.00	0.14	562.9	0.01	0.01
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Worker	60	120	20.0	0.31	0.30	4.88	0.01	1.68	0.01	1.69	0.43	0.01	0.43	1649.0	0.03	0.03
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Worker	20	40	20.0	0.09	0.08	1.42	0.00	0.56	0.00	0.56	0.14	0.00	0.14	539.8	0.01	0.01
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Worker	20	40	20.0	0.09	0.09	1.48	0.00	0.56	0.00	0.56	0.14	0.00	0.14	542.7	0.01	0.01
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Worker	50	100	20.0	0.33	0.37	5.09	0.01	1.40	0.01	1.41	0.35	0.01	0.36	1420.1	0.03	0.03
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	2029	Worker	20	40	20.0	0.13	0.15	2.04	0.01	0.56	0.00	0.56	0.14	0.00	0.14	568.1	0.01	0.01
Ventura Blvd Station-Grading	4/1/2029	7/31/2029	6	104	10	2029	Worker	5	10	20.0	0.03	0.04	0.51	0.00	0.14	0.00	0.14	0.04	0.00	0.04	142.0	0.00	0.00
Ventura Blvd Station-Drainage	4/1/2029	6/30/2030	6	390	10	2029	Worker	40	80	20.0	0.27	0.30	4.07	0.01	1.12	0.01	1.13	0.28	0.01	0.29	1136.1	0.03	0.03
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	2030	Worker	40	80	20.0	0.25	0.27	3.84	0.01	1.12	0.01	1.13	0.28	0.00	0.29	1125.8	0.02	0.03
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	2031	Worker	20	40	20.0	0.12	0.12	1.81	0.01	0.56	0.00	0.56	0.14	0.00	0.14	558.1	0.01	0.01
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Worker	60	120	20.0	0.31	0.30	4.88	0.01	1.68	0.01	1.69	0.43	0.01	0.43	1649.0	0.03	0.03
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	2036	Worker	20	40	20.0	0.09	0.08	1.42	0.00	0.56	0.00	0.56	0.14	0.00	0.14	539.8	0.01	0.01
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Worker	20	40	20.0	0.09	0.09	1.48	0.00	0.56	0.00	0.56	0.14	0.00	0.14	542.7	0.01	0.01

Sepulveda Transit Corridor Project - ALTERNATIVE 6

WORKER VEHICLES (OFFSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Workers per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Total Emissions (tons)											Total Emissions (metric tons)			
											ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Segment 1-Westside-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Worker	6	12	20.0	0.00	0.00	0.03	0.00	0.01	0.00	0.01	0.00	0.00	0.00	8.0	0.00	0.00	8.0
Segment 1-Westside-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Worker	30	60	20.0	0.01	0.01	0.14	0.00	0.04	0.00	0.04	0.01	0.00	0.01	39.9	0.00	0.00	40.2
Segment 1-Westside-Tunnel Boring/Tunneling	9/1/2031	10/31/2032	6	366	20	2031	Worker	50	100	20.0	0.05	0.06	0.83	0.00	0.26	0.00	0.26	0.06	0.00	0.07	231.6	0.00	0.01	233.3
Segment 1-Westside-TBM Retrieval/Tunnel Prep	11/1/2032	4/30/2033	6	156	20	2032	Worker	20	40	20.0	0.01	0.01	0.13	0.00	0.04	0.00	0.04	0.01	0.00	0.01	39.2	0.00	0.00	39.4
Segment 1-Westside-Annular Grouting	9/1/2031	10/31/2032	6	366	20	2031	Worker	10	20	20.0	0.01	0.01	0.17	0.00	0.05	0.00	0.05	0.01	0.00	0.01	46.3	0.00	0.00	46.7
Segment 1-Westside-Invert Construction	4/1/2034	7/31/2034	6	104	20	2034	Worker	30	60	20.0	0.01	0.01	0.12	0.00	0.04	0.00	0.04	0.01	0.00	0.01	38.6	0.00	0.00	38.9
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	2033	Worker	20	40	20.0	0.02	0.02	0.25	0.00	0.09	0.00	0.09	0.02	0.00	0.02	77.8	0.00	0.00	78.3
Segment 1-Westside-Rail and Plinth	8/1/2034	1/31/2035	6	158	20	2034	Worker	20	40	20.0	0.01	0.01	0.12	0.00	0.04	0.00	0.04	0.01	0.00	0.01	39.1	0.00	0.00	39.4
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Worker	20	40	20.0	0.01	0.01	0.23	0.00	0.09	0.00	0.09	0.02	0.00	0.02	77.0	0.00	0.00	77.5
Segment 2-Mountain-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Worker	30	60	20.0	0.01	0.01	0.14	0.00	0.04	0.00	0.04	0.01	0.00	0.01	39.9	0.00	0.00	40.2
Segment 2-Mountain-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Worker	30	60	20.0	0.01	0.01	0.14	0.00	0.04	0.00	0.04	0.01	0.00	0.01	39.9	0.00	0.00	40.2
Segment 2-Mountain-Tunnel Boring/Tunneling	9/1/2031	1/31/2034	6	758	20	2031	Worker	50	100	20.0	0.11	0.11	1.71	0.00	0.53	0.00	0.53	0.13	0.00	0.14	479.7	0.01	0.01	483.1
Segment 2-Mountain-TBM Retrieval/Tunnel Prep	2/1/2034	7/31/2034	6	155	20	2034	Worker	20	40	20.0	0.01	0.01	0.12	0.00	0.04	0.00	0.04	0.01	0.00	0.01	38.4	0.00	0.00	38.6
Segment 2-Mountain-Annular Grouting	9/1/2031	1/31/2034	6	758	20	2031	Worker	10	20	20.0	0.02	0.02	0.34	0.00	0.11	0.00	0.11	0.03	0.00	0.03	95.9	0.00	0.00	96.6
Segment 2-Mountain-Invert Construction	5/1/2035	2/28/2037	6	575	20	2035	Worker	30	60	20.0	0.04	0.04	0.64	0.00	0.24	0.00	0.24	0.06	0.00	0.06	212.3	0.00	0.00	213.6
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	2034	Worker	20	40	20.0	0.04	0.04	0.58	0.00	0.21	0.00	0.21	0.05	0.00	0.05	187.5	0.00	0.00	188.6
Segment 2-Mountain-Rail and Plinth	4/1/2036	3/31/2037	6	313	20	2036	Worker	20	40	20.0	0.01	0.01	0.22	0.00	0.09	0.00	0.09	0.02	0.00	0.02	76.6	0.00	0.00	77.1
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	2036	Worker	20	40	20.0	0.01	0.01	0.22	0.00	0.09	0.00	0.09	0.02	0.00	0.02	76.6	0.00	0.00	77.1
Segment 3-Valley-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Worker	6	12	20.0	0.00	0.00	0.03	0.00	0.01	0.00	0.01	0.00	0.00	0.00	8.0	0.00	0.00	8.0
Segment 3-Valley-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Worker	30	60	20.0	0.01	0.01	0.14	0.00	0.04	0.00	0.04	0.01	0.00	0.01	39.9	0.00	0.00	40.2
Segment 3-Valley-Tunnel Boring/Tunneling	9/1/2031	8/31/2032	6	314	20	2031	Worker	50	100	20.0	0.05	0.05	0.71	0.00	0.22	0.00	0.22	0.06	0.00	0.06	198.7	0.00	0.00	200.1
Segment 3-Valley-TBM Retrieval/Tunnel Prep	9/1/2032	2/28/2033	6	155	20	2032	Worker	20	40	20.0	0.01	0.01	0.13	0.00	0.04	0.00	0.04	0.01	0.00	0.01	38.9	0.00	0.00	39.2
Segment 3-Valley-Annular Grouting	9/1/2031	8/31/2032	6	314	20	2031	Worker	10	20	20.0	0.01	0.01	0.14	0.00	0.04	0.00	0.04	0.01	0.00	0.01	39.7	0.00	0.00	40.0
Segment 3-Valley-Invert Construction	4/1/2034	5/31/2035	6	365	20	2034	Worker	30	60	20.0	0.03	0.03	0.42	0.00	0.15	0.00	0.15	0.04	0.00	0.04	135.6	0.00	0.00	136.4
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	2032	Worker	20	40	20.0	0.03	0.03	0.42	0.00	0.14	0.00	0.14	0.04	0.00	0.04	124.3	0.00	0.00	125.2
Segment 3-Valley-Rail and Plinth	8/1/2034	9/30/2035	6	365	20	2034	Worker	20	40	20.0	0.02	0.02	0.28	0.00	0.10	0.00	0.10	0.03	0.00	0.03	90.4	0.00	0.00	90.9
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Worker	20	40	20.0	0.01	0.01	0.23	0.00	0.09	0.00	0.09	0.02	0.00	0.02	77.0	0.00	0.00	77.5
Mid Mountain Shaft-Site Preparation/Demolition	11/1/2031	12/31/2031	6	52	10	2031	Worker	20	40	20.0	0.00	0.00	0.05	0.00	0.01	0.00	0.01	0.00	0.00	0.00	13.2	0.00	0.00	13.3
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	2031	Worker	20	40	20.0	0.01	0.01	0.14	0.00	0.04	0.00	0.04	0.01	0.00	0.01	40.0	0.00	0.00	40.3
Mid Mountain Shaft-Drainage/Utilities	11/1/2031	12/31/2031	6	52	10	2031	Worker	6	12	20.0	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.9	0.00	0.00	4.0
Mid Mountain Shaft-Shaft Drilling	1/1/2032	12/31/2032	6	314	10	2032	Worker	20	40	20.0	0.02	0.02	0.27	0.00	0.09	0.00	0.09	0.02	0.00	0.02	78.9	0.00	0.00	79.4
Mid Mountain Shaft-Shaft Lining	1/1/2032	12/31/2032	6	314	10	2032	Worker	20	40	20.0	0.02	0.02	0.27	0.00	0.09	0.00	0.09	0.02	0.00	0.02	78.9	0.00	0.00	79.4
Mid Mountain Shaft-Cavern and Adit	1/1/2033	12/31/2033	6	313	10	2033	Worker	20	40	20.0	0.02	0.02	0.25	0.00	0.09	0.00	0.09	0.02	0.00	0.02	78.0	0.00	0.00	78.5
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Worker	50	100	20.0	0.03	0.03	0.40	0.00	0.11	0.00	0.11	0.03	0.00	0.03	100.5	0.00	0.00	101.3
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Worker	20	40	20.0	0.01	0.01	0.08	0.00	0.02	0.00	0.02	0.01	0.00	0.01	20.1	0.00	0.00	20.3
Van Nuys Metrolink Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Worker	5	10	20.0	0.00	0.00	0.02	0.00	0.01	0.00	0.01	0.00	0.00	0.00	5.0	0.00	0.00	5.1
Van Nuys Metrolink Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Worker	40	80	20.0	0.01	0.02	0.21	0.00	0.06	0.00	0.06	0.01	0.00	0.02	53.6	0.00	0.00	54.0
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Worker	40	80	20.0	0.02	0.02	0.32	0.00	0.09	0.00	0.09	0.02	0.00	0.02	80.4	0.00	0.00	81.0
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Worker	20	40	20.0	0.01	0.02	0.23	0.00	0.07	0.00	0.07	0.02	0.00	0.02	60.3	0.00	0.00	60.7
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Worker	60	120	20.0	0.15	0.15	2.35	0.01	0.81	0.00	0.81	0.21	0.00	0.21	721.8	0.01	0.01	726.5
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Worker	20	40	20.0	0.00	0.00	0.07	0.00	0.03	0.00	0.03	0.01	0.00	0.01	25.5	0.00	0.00	25.6
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Worker	20	40	20.0	0.01	0.01	0.23	0.00	0.09	0.00	0.09	0.02	0.00	0.02	77.0	0.00	0.00	77.5
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Worker	50	100	20.0	0.03	0.03	0.40	0.00	0.11	0.00	0.11	0.03	0.00	0.03	100.5	0.00	0.00	101.3
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Worker	20	40	20.0	0.01	0.01	0.08	0.00	0.02	0.00	0.02	0.01	0.00	0.01	20.1	0.00	0.00	20.3
Metro G Line Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Worker	5	10	20.0	0.00	0.00	0.02	0.00	0.01	0.00	0.01	0.00	0.00	0.00	5.0	0.00	0.00	5.1
Metro G Line Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Worker	40	80	20.0	0.01	0.02	0.21	0.00	0.06	0.00	0.06	0.01	0.00	0.02	53.6	0.00	0.00	54.0
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Worker	40	80	20.0	0.02	0.02	0.32	0.00	0.09	0.00	0.09	0.02	0.00	0.02	80.4	0.00	0.00	81.0
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Worker	20	40	20.0	0.01	0.02	0.23	0.00	0.07	0.00	0.07	0.02	0.00	0.02	60.3	0.00	0.00	60.7
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Worker	60	120	20.0	0.15	0.14	2.29	0.01	0.79	0.00	0.79	0.20	0.00	0.20	703.1	0.01	0.01	707.6
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Worker	20	40	20.0	0.00	0.00	0.07	0.00	0.03	0.00	0.03	0.01	0.00	0.01	25.5	0.00	0.00	25.6
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Worker	20	40	20.0	0.01	0.01	0.23	0.00	0.09	0.00	0.09	0.02	0.00	0.02	77.3	0.00	0.00	77.8
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Worker	50	100	20.0	0.03	0.03	0.40	0.00	0.11	0.00	0.11	0.03	0.00	0.03	100.5	0.00	0.00	101.3
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	2029	Worker	20	40	20.0	0.01	0.01	0.11	0.00	0.03	0.00	0.03	0.01	0.00	0.01	26.8	0.00	0.00	27.0
Ventura Blvd Station-Grading	4/1/2029	7/31/2029	6	104	10	2029	Worker	5	10	20.0	0.00	0.00	0.03	0.00	0.01	0.00	0.01	0.00	0.00	0.00	6.7	0.00	0.00	6.8
Ventura Blvd Station-Drainage	4/1/2029	6/30/2030	6	390	10	2029	Worker	40	80	20.0	0.05	0.06	0.79	0.00	0.22	0.00	0.22	0.06	0.00	0.06	201.0	0.00	0.00	202.5
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	2030	Worker	40	80	20.0	0.02	0.02	0.30	0.00	0.09	0.00	0.09	0.02	0.00	0.02	80.7	0.00	0.00	81.3
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	2031	Worker	20	40	20.0	0.01	0.01	0.21	0.00	0.07	0.00	0.07	0.02	0.00	0.02	59.2	0.00	0.00	59.7
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Worker	60	120	20.0	0.15	0.14	2.29	0.01	0.79	0.00	0.79	0.20	0.00	0.20	703.1	0.01	0.01	707.6
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	2036	Worker	20	40	20.0	0.00	0.00	0.07	0.00	0.03	0.00	0.03	0.01	0.00	0.01	25.5	0.00	0.00	25.6
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Worker	20	40	20.0	0.01	0.01	0.23	0.00	0.09	0.00	0.09	0.02	0.00	0.02	77.3	0.00	0.00	77.8

Sepulveda Transit Corridor Project - ALTERNATIVE 6

WORKER VEHICLES (OFFSITE)

											Running Emission Factor (g/mile)[1,2]													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Workers per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Worker	50	100	20.0	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.2	0.00	0.01
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	2029	Worker	20	40	20.0	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.2	0.00	0.01
UCLA Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Worker	5	10	20.0	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.2	0.00	0.01
UCLA Station-Drainage	4/1/2029	12/31/2029	6	235	10	2029	Worker	40	80	20.0	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.2	0.00	0.01
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Worker	40	80	20.0	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.2	0.00	0.01
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	2030	Worker	20	40	20.0	0.01	0.06	0.94	0.00	0.32	0.00	0.32	0.08	0.00	0.08	315.3	0.00	0.01
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	2034	Worker	60	120	20.0	0.01	0.04	0.75	0.00	0.32	0.00	0.32	0.08	0.00	0.08	305.8	0.00	0.00
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	2036	Worker	20	40	20.0	0.01	0.04	0.69	0.00	0.32	0.00	0.32	0.08	0.00	0.08	302.4	0.00	0.00
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	2036	Worker	20	40	20.0	0.01	0.04	0.69	0.00	0.32	0.00	0.32	0.08	0.00	0.08	302.4	0.00	0.00
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Worker	50	100	20.0	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.2	0.00	0.01
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Worker	20	40	20.0	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.2	0.00	0.01
Wilshire Blvd (Metro D Line) Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Worker	5	10	20.0	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.2	0.00	0.01
Wilshire Blvd (Metro D Line) Station-Drainage	4/1/2029	3/31/2030	6	312	10	2029	Worker	40	80	20.0	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.2	0.00	0.01
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	2029	Worker	40	80	20.0	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.2	0.00	0.01
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	2030	Worker	20	40	20.0	0.01	0.06	0.94	0.00	0.32	0.00	0.32	0.08	0.00	0.08	315.3	0.00	0.01
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Worker	60	120	20.0	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.9	0.00	0.00
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Worker	20	40	20.0	0.01	0.04	0.69	0.00	0.32	0.00	0.32	0.08	0.00	0.08	302.4	0.00	0.00
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Worker	20	40	20.0	0.01	0.04	0.72	0.00	0.32	0.00	0.32	0.08	0.00	0.08	304.0	0.00	0.00
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Worker	50	100	20.0	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.2	0.00	0.01
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	2029	Worker	20	40	20.0	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.2	0.00	0.01
Santa Monica Blvd Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Worker	5	10	20.0	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.2	0.00	0.01
Santa Monica Blvd Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Worker	40	80	20.0	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.2	0.00	0.01
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Worker	40	80	20.0	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.2	0.00	0.01
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Worker	20	40	20.0	0.01	0.06	0.94	0.00	0.32	0.00	0.32	0.08	0.00	0.08	315.3	0.00	0.01
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Worker	60	120	20.0	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.9	0.00	0.00
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Worker	20	40	20.0	0.01	0.04	0.69	0.00	0.32	0.00	0.32	0.08	0.00	0.08	302.4	0.00	0.00
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Worker	20	40	20.0	0.01	0.04	0.72	0.00	0.32	0.00	0.32	0.08	0.00	0.08	304.0	0.00	0.00
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Worker	50	100	20.0	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.2	0.00	0.01
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Worker	20	40	20.0	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.2	0.00	0.01
Metro E Line (Expo)/Bundy Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Worker	5	10	20.0	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.2	0.00	0.01
Metro E Line (Expo)/Bundy Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Worker	40	80	20.0	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.2	0.00	0.01
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	2029	Worker	40	80	20.0	0.02	0.07	0.99	0.00	0.32	0.00	0.32	0.08	0.00	0.08	318.2	0.00	0.01
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Worker	20	40	20.0	0.01	0.06	0.94	0.00	0.32	0.00	0.32	0.08	0.00	0.08	315.3	0.00	0.01
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Worker	60	120	20.0	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.9	0.00	0.00
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Worker	20	40	20.0	0.01	0.04	0.69	0.00	0.32	0.00	0.32	0.08	0.00	0.08	302.4	0.00	0.00
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Worker	20	40	20.0	0.01	0.04	0.72	0.00	0.32	0.00	0.32	0.08	0.00	0.08	304.0	0.00	0.00
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Worker	6	12	20.0	0.01	0.06	0.88	0.00	0.32	0.00	0.32	0.08	0.00	0.08	312.6	0.00	0.01
Vanowen St/Van Nuys Blvd TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Worker	6	12	20.0	0.01	0.04	0.72	0.00	0.32	0.00	0.32	0.08	0.00	0.08	304.0	0.00	0.00
Vanowen St/Van Nuys Blvd TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Worker	6	12	20.0	0.01	0.04	0.69	0.00	0.32	0.00	0.32	0.08	0.00	0.08	302.4	0.00	0.00
Magnolia TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Worker	6	12	20.0	0.01	0.06	0.88	0.00	0.32	0.00	0.32	0.08	0.00	0.08	312.6	0.00	0.01
Magnolia TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Worker	6	12	20.0	0.01	0.04	0.72	0.00	0.32	0.00	0.32	0.08	0.00	0.08	304.0	0.00	0.00
Magnolia TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Worker	6	12	20.0	0.01	0.04	0.69	0.00	0.32	0.00	0.32	0.08	0.00	0.08	302.4	0.00	0.00
Mid Mountain Shaft TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Worker	6	12	20.0	0.01	0.06	0.88	0.00	0.32	0.00	0.32	0.08	0.00	0.08	312.6	0.00	0.01
Mid Mountain Shaft TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Worker	6	12	20.0	0.01	0.04	0.72	0.00	0.32	0.00	0.32	0.08	0.00	0.08	304.0	0.00	0.00
Mid Mountain Shaft TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Worker	6	12	20.0	0.01	0.04	0.69	0.00	0.32	0.00	0.32	0.08	0.00	0.08	302.4	0.00	0.00
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	2033	Worker	10	20	20.0	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.9	0.00	0.00
OMSF-Grading	2/1/2033	7/31/2033	5	129	8	2033	Worker	10	20	20.0	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.9	0.00	0.00
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Worker	20	40	20.0	0.01	0.04	0.75	0.00	0.32	0.00	0.32	0.08	0.00	0.08	305.8	0.00	0.00
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	2033	Worker	10	20	20.0	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.9	0.00	0.00
OMSF-Drainage/Utilties	5/1/2033	10/31/2033	5	131	8	2033	Worker	10	20	20.0	0.01	0.05	0.79	0.00	0.32	0.00	0.32	0.08	0.00	0.08	307.9	0.00	0.00
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	2030	Worker	20	40	20.0	0.01	0.06	0.94	0.00	0.32	0.00	0.32	0.08	0.00	0.08	315.3	0.00	0.01

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Fleet Mix:** Light-Duty Mix (25% LDA/50% LDT1/25% LDT2); **Fuel Type:** Gasoline

2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.

3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 6

WORKER VEHICLES (OFFSITE)

											Non-Running Emission Factor (g/trip)[1,3]													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Workers per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Worker	50	100	20.0	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.3	0.07	0.03
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	2029	Worker	20	40	20.0	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.3	0.07	0.03
UCLA Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Worker	5	10	20.0	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.3	0.07	0.03
UCLA Station-Drainage	4/1/2029	12/31/2029	6	235	10	2029	Worker	40	80	20.0	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.3	0.07	0.03
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Worker	40	80	20.0	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.3	0.07	0.03
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	2030	Worker	20	40	20.0	1.13	0.26	3.06	0.001	-	0.002	0.002	-	0.002	0.002	77.3	0.06	0.03
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	2034	Worker	60	120	20.0	0.92	0.22	2.45	0.001	-	0.002	0.002	-	0.001	0.001	73.9	0.05	0.03
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	2036	Worker	20	40	20.0	0.89	0.21	2.23	0.001	-	0.001	0.001	-	0.001	0.001	72.5	0.05	0.03
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	2036	Worker	20	40	20.0	0.89	0.21	2.23	0.001	-	0.001	0.001	-	0.001	0.001	72.5	0.05	0.03
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Worker	50	100	20.0	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.3	0.07	0.03
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Worker	20	40	20.0	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.3	0.07	0.03
Wilshire Blvd (Metro D Line) Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Worker	5	10	20.0	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.3	0.07	0.03
Wilshire Blvd (Metro D Line) Station-Drainage	4/1/2029	3/31/2030	6	312	10	2029	Worker	40	80	20.0	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.3	0.07	0.03
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	2029	Worker	40	80	20.0	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.3	0.07	0.03
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	2030	Worker	20	40	20.0	1.13	0.26	3.06	0.001	-	0.002	0.002	-	0.002	0.002	77.3	0.06	0.03
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Worker	60	120	20.0	0.98	0.23	2.59	0.001	-	0.002	0.002	-	0.002	0.002	74.6	0.05	0.03
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Worker	20	40	20.0	0.89	0.21	2.23	0.001	-	0.001	0.001	-	0.001	0.001	72.5	0.05	0.03
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Worker	20	40	20.0	0.91	0.21	2.33	0.001	-	0.001	0.001	-	0.001	0.001	73.1	0.05	0.03
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Worker	50	100	20.0	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.3	0.07	0.03
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	2029	Worker	20	40	20.0	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.3	0.07	0.03
Santa Monica Blvd Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Worker	5	10	20.0	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.3	0.07	0.03
Santa Monica Blvd Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Worker	40	80	20.0	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.3	0.07	0.03
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Worker	40	80	20.0	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.3	0.07	0.03
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Worker	20	40	20.0	1.13	0.26	3.06	0.001	-	0.002	0.002	-	0.002	0.002	77.3	0.06	0.03
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Worker	60	120	20.0	0.98	0.23	2.59	0.001	-	0.002	0.002	-	0.002	0.002	74.6	0.05	0.03
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Worker	20	40	20.0	0.89	0.21	2.23	0.001	-	0.001	0.001	-	0.001	0.001	72.5	0.05	0.03
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Worker	20	40	20.0	0.91	0.21	2.33	0.001	-	0.001	0.001	-	0.001	0.001	73.1	0.05	0.03
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Worker	50	100	20.0	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.3	0.07	0.03
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Worker	20	40	20.0	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.3	0.07	0.03
Metro E Line (Expo)/Bundy Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Worker	5	10	20.0	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.3	0.07	0.03
Metro E Line (Expo)/Bundy Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Worker	40	80	20.0	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.3	0.07	0.03
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	2029	Worker	40	80	20.0	1.19	0.27	3.24	0.001	-	0.002	0.002	-	0.002	0.002	78.3	0.07	0.03
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Worker	20	40	20.0	1.13	0.26	3.06	0.001	-	0.002	0.002	-	0.002	0.002	77.3	0.06	0.03
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Worker	60	120	20.0	0.98	0.23	2.59	0.001	-	0.002	0.002	-	0.002	0.002	74.6	0.05	0.03
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Worker	20	40	20.0	0.89	0.21	2.23	0.001	-	0.001	0.001	-	0.001	0.001	72.5	0.05	0.03
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Worker	20	40	20.0	0.91	0.21	2.33	0.001	-	0.001	0.001	-	0.001	0.001	73.1	0.05	0.03
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Worker	6	12	20.0	1.07	0.25	2.88	0.001	-	0.002	0.002	-	0.002	0.002	76.4	0.06	0.03
Vanowen St/Van Nuys Blvd TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Worker	6	12	20.0	0.91	0.21	2.33	0.001	-	0.001	0.001	-	0.001	0.001	73.1	0.05	0.03
Vanowen St/Van Nuys Blvd TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Worker	6	12	20.0	0.89	0.21	2.23	0.001	-	0.001	0.001	-	0.001	0.001	72.5	0.05	0.03
Magnolia TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Worker	6	12	20.0	1.07	0.25	2.88	0.001	-	0.002	0.002	-	0.002	0.002	76.4	0.06	0.03
Magnolia TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Worker	6	12	20.0	0.91	0.21	2.33	0.001	-	0.001	0.001	-	0.001	0.001	73.1	0.05	0.03
Magnolia TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Worker	6	12	20.0	0.89	0.21	2.23	0.001	-	0.001	0.001	-	0.001	0.001	72.5	0.05	0.03
Mid Mountain Shaft TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Worker	6	12	20.0	1.07	0.25	2.88	0.001	-	0.002	0.002	-	0.002	0.002	76.4	0.06	0.03
Mid Mountain Shaft TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Worker	6	12	20.0	0.91	0.21	2.33	0.001	-	0.001	0.001	-	0.001	0.001	73.1	0.05	0.03
Mid Mountain Shaft TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Worker	6	12	20.0	0.89	0.21	2.23	0.001	-	0.001	0.001	-	0.001	0.001	72.5	0.05	0.03
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	2033	Worker	10	20	20.0	0.98	0.23	2.59	0.001	-	0.002	0.002	-	0.002	0.002	74.6	0.05	0.03
OMSF-Grading	2/1/2033	7/31/2033	5	129	8	2033	Worker	10	20	20.0	0.98	0.23	2.59	0.001	-	0.002	0.002	-	0.002	0.002	74.6	0.05	0.03
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Worker	20	40	20.0	0.92	0.22	2.45	0.001	-	0.002	0.002	-	0.001	0.001	73.9	0.05	0.03
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	2033	Worker	10	20	20.0	0.98	0.23	2.59	0.001	-	0.002	0.002	-	0.002	0.002	74.6	0.05	0.03
OMSF-Drainage/Utilties	5/1/2033	10/31/2033	5	131	8	2033	Worker	10	20	20.0	0.98	0.23	2.59	0.001	-	0.002	0.002	-	0.002	0.002	74.6	0.05	0.03
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	2030	Worker	20	40	20.0	1.13	0.26	3.06	0.001	-	0.002	0.002	-	0.002	0.002	77.3	0.06	0.03

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Fleet Mix:** Light-Duty Mix (25% LDA/50% LDT1/25% LDT2); **Fuel Type:** Gasoline

2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.

3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 6

WORKER VEHICLES (OFFSITE)

											Daily Emissions (lb/day)												
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Hours per Workday**	**EF Year**	**Trip Type**	**Workers per Day**	**Total One-Way Trips per Day**	**One-Way Trip Length (mi)**	**ROG**	**NO_X**	**CO**	**SO_X**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**	**CO_2**	**CH_4**	**N_2O**
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Worker	50	100	20.0	0.33	0.37	5.09	0.01	1.40	0.01	1.41	0.35	0.01	0.36	1420.1	0.03	0.03
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	2029	Worker	20	40	20.0	0.13	0.15	2.04	0.01	0.56	0.00	0.56	0.14	0.00	0.14	568.1	0.01	0.01
UCLA Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Worker	5	10	20.0	0.03	0.04	0.51	0.00	0.14	0.00	0.14	0.04	0.00	0.04	142.0	0.00	0.00
UCLA Station-Drainage	4/1/2029	12/31/2029	6	235	10	2029	Worker	40	80	20.0	0.27	0.30	4.07	0.01	1.12	0.01	1.13	0.28	0.01	0.29	1136.1	0.03	0.03
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Worker	40	80	20.0	0.27	0.30	4.07	0.01	1.12	0.01	1.13	0.28	0.01	0.29	1136.1	0.03	0.03
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	2030	Worker	20	40	20.0	0.13	0.13	1.92	0.01	0.56	0.00	0.56	0.14	0.00	0.14	562.9	0.01	0.01
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	2034	Worker	60	120	20.0	0.29	0.28	4.63	0.01	1.68	0.01	1.69	0.43	0.01	0.43	1637.8	0.03	0.03
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	2036	Worker	20	40	20.0	0.09	0.08	1.42	0.00	0.56	0.00	0.56	0.14	0.00	0.14	539.8	0.01	0.01
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	2036	Worker	20	40	20.0	0.09	0.08	1.42	0.00	0.56	0.00	0.56	0.14	0.00	0.14	539.8	0.01	0.01
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Worker	50	100	20.0	0.33	0.37	5.09	0.01	1.40	0.01	1.41	0.35	0.01	0.36	1420.1	0.03	0.03
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Worker	20	40	20.0	0.13	0.15	2.04	0.01	0.56	0.00	0.56	0.14	0.00	0.14	568.1	0.01	0.01
Wilshire Blvd (Metro D Line) Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Worker	5	10	20.0	0.03	0.04	0.51	0.00	0.14	0.00	0.14	0.04	0.00	0.04	142.0	0.00	0.00
Wilshire Blvd (Metro D Line) Station-Drainage	4/1/2029	3/31/2030	6	312	10	2029	Worker	40	80	20.0	0.27	0.30	4.07	0.01	1.12	0.01	1.13	0.28	0.01	0.29	1136.1	0.03	0.03
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	2029	Worker	40	80	20.0	0.27	0.30	4.07	0.01	1.12	0.01	1.13	0.28	0.01	0.29	1136.1	0.03	0.03
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	2030	Worker	20	40	20.0	0.13	0.13	1.92	0.01	0.56	0.00	0.56	0.14	0.00	0.14	562.9	0.01	0.01
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Worker	60	120	20.0	0.31	0.30	4.88	0.01	1.68	0.01	1.69	0.43	0.01	0.43	1649.0	0.03	0.03
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Worker	20	40	20.0	0.09	0.08	1.42	0.00	0.56	0.00	0.56	0.14	0.00	0.14	539.8	0.01	0.01
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Worker	20	40	20.0	0.09	0.09	1.48	0.00	0.56	0.00	0.56	0.14	0.00	0.14	542.7	0.01	0.01
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Worker	50	100	20.0	0.33	0.37	5.09	0.01	1.40	0.01	1.41	0.35	0.01	0.36	1420.1	0.03	0.03
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	2029	Worker	20	40	20.0	0.13	0.15	2.04	0.01	0.56	0.00	0.56	0.14	0.00	0.14	568.1	0.01	0.01
Santa Monica Blvd Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Worker	5	10	20.0	0.03	0.04	0.51	0.00	0.14	0.00	0.14	0.04	0.00	0.04	142.0	0.00	0.00
Santa Monica Blvd Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Worker	40	80	20.0	0.27	0.30	4.07	0.01	1.12	0.01	1.13	0.28	0.01	0.29	1136.1	0.03	0.03
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Worker	40	80	20.0	0.27	0.30	4.07	0.01	1.12	0.01	1.13	0.28	0.01	0.29	1136.1	0.03	0.03
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Worker	20	40	20.0	0.13	0.13	1.92	0.01	0.56	0.00	0.56	0.14	0.00	0.14	562.9	0.01	0.01
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Worker	60	120	20.0	0.31	0.30	4.88	0.01	1.68	0.01	1.69	0.43	0.01	0.43	1649.0	0.03	0.03
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Worker	20	40	20.0	0.09	0.08	1.42	0.00	0.56	0.00	0.56	0.14	0.00	0.14	539.8	0.01	0.01
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Worker	20	40	20.0	0.09	0.09	1.48	0.00	0.56	0.00	0.56	0.14	0.00	0.14	542.7	0.01	0.01
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Worker	50	100	20.0	0.33	0.37	5.09	0.01	1.40	0.01	1.41	0.35	0.01	0.36	1420.1	0.03	0.03
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Worker	20	40	20.0	0.13	0.15	2.04	0.01	0.56	0.00	0.56	0.14	0.00	0.14	568.1	0.01	0.01
Metro E Line (Expo)/Bundy Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Worker	5	10	20.0	0.03	0.04	0.51	0.00	0.14	0.00	0.14	0.04	0.00	0.04	142.0	0.00	0.00
Metro E Line (Expo)/Bundy Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Worker	40	80	20.0	0.27	0.30	4.07	0.01	1.12	0.01	1.13	0.28	0.01	0.29	1136.1	0.03	0.03
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	2029	Worker	40	80	20.0	0.27	0.30	4.07	0.01	1.12	0.01	1.13	0.28	0.01	0.29	1136.1	0.03	0.03
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Worker	20	40	20.0	0.13	0.13	1.92	0.01	0.56	0.00	0.56	0.14	0.00	0.14	562.9	0.01	0.01
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Worker	60	120	20.0	0.31	0.30	4.88	0.01	1.68	0.01	1.69	0.43	0.01	0.43	1649.0	0.03	0.03
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Worker	20	40	20.0	0.09	0.08	1.42	0.00	0.56	0.00	0.56	0.14	0.00	0.14	539.8	0.01	0.01
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Worker	20	40	20.0	0.09	0.09	1.48	0.00	0.56	0.00	0.56	0.14	0.00	0.14	542.7	0.01	0.01
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Worker	6	12	20.0	0.04	0.04	0.54	0.00	0.17	0.00	0.17	0.04	0.00	0.04	167.4	0.00	0.00
Vanowen St/Van Nuys Blvd TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Worker	6	12	20.0	0.03	0.03	0.44	0.00	0.17	0.00	0.17	0.04	0.00	0.04	162.8	0.00	0.00
Vanowen St/Van Nuys Blvd TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Worker	6	12	20.0	0.03	0.02	0.43	0.00	0.17	0.00	0.17	0.04	0.00	0.04	161.9	0.00	0.00
Magnolia TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Worker	6	12	20.0	0.04	0.04	0.54	0.00	0.17	0.00	0.17	0.04	0.00	0.04	167.4	0.00	0.00
Magnolia TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Worker	6	12	20.0	0.03	0.03	0.44	0.00	0.17	0.00	0.17	0.04	0.00	0.04	162.8	0.00	0.00
Magnolia TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Worker	6	12	20.0	0.03	0.02	0.43	0.00	0.17	0.00	0.17	0.04	0.00	0.04	161.9	0.00	0.00
Mid Mountain Shaft TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Worker	6	12	20.0	0.04	0.04	0.54	0.00	0.17	0.00	0.17	0.04	0.00	0.04	167.4	0.00	0.00
Mid Mountain Shaft TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Worker	6	12	20.0	0.03	0.03	0.44	0.00	0.17	0.00	0.17	0.04	0.00	0.04	162.8	0.00	0.00
Mid Mountain Shaft TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Worker	6	12	20.0	0.03	0.02	0.43	0.00	0.17	0.00	0.17	0.04	0.00	0.04	161.9	0.00	0.00
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	2033	Worker	10	20	20.0	0.05	0.05	0.81	0.00	0.28	0.00	0.28	0.07	0.00	0.07	274.8	0.00	0.01
OMSF-Grading	2/1/2033	7/31/2033	5	129	8	2033	Worker	10	20	20.0	0.05	0.05	0.81	0.00	0.28	0.00	0.28	0.07	0.00	0.07	274.8	0.00	0.01
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Worker	20	40	20.0	0.10	0.09	1.54	0.00	0.56	0.00	0.56	0.14	0.00	0.14	545.9	0.01	0.01
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	2033	Worker	10	20	20.0	0.05	0.05	0.81	0.00	0.28	0.00	0.28	0.07	0.00	0.07	274.8	0.00	0.01
OMSF-Drainage/Utilties	5/1/2033	10/31/2033	5	131	8	2033	Worker	10	20	20.0	0.05	0.05	0.81	0.00	0.28	0.00	0.28	0.07	0.00	0.07	274.8	0.00	0.01
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	2030	Worker	20	40	20.0	0.13	0.13	1.92	0.01	0.56	0.00	0.56	0.14	0.00	0.14	562.9	0.01	0.01

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Fleet Mix:** Light-Duty Mix (25% LDA/50% LDT1/25% LDT2); **Fuel Type:** Gasoline
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 6

WORKER VEHICLES (OFFSITE)

											Total Emissions (tons)											Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Workers per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Worker	50	100	20.0	0.08	0.09	1.19	0.00	0.33	0.00	0.33	0.08	0.00	0.08	302.1	0.01	0.01	304.5
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	2029	Worker	20	40	20.0	0.03	0.03	0.48	0.00	0.13	0.00	0.13	0.03	0.00	0.03	120.8	0.00	0.00	121.8
UCLA Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Worker	5	10	20.0	0.00	0.00	0.02	0.00	0.01	0.00	0.01	0.00	0.00	0.00	5.0	0.00	0.00	5.1
UCLA Station-Drainage	4/1/2029	12/31/2029	6	235	10	2029	Worker	40	80	20.0	0.03	0.03	0.48	0.00	0.13	0.00	0.13	0.03	0.00	0.03	121.1	0.00	0.00	122.0
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Worker	40	80	20.0	0.02	0.02	0.32	0.00	0.09	0.00	0.09	0.02	0.00	0.02	80.4	0.00	0.00	81.0
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	2030	Worker	20	40	20.0	0.02	0.02	0.30	0.00	0.09	0.00	0.09	0.02	0.00	0.02	79.9	0.00	0.00	80.5
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	2034	Worker	60	120	20.0	0.14	0.13	2.18	0.01	0.79	0.00	0.79	0.20	0.00	0.20	697.6	0.01	0.01	701.9
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	2036	Worker	20	40	20.0	0.01	0.01	0.11	0.00	0.04	0.00	0.04	0.01	0.00	0.01	38.2	0.00	0.00	38.4
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	2036	Worker	20	40	20.0	0.01	0.01	0.22	0.00	0.09	0.00	0.09	0.02	0.00	0.02	76.6	0.00	0.00	77.1
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Worker	50	100	20.0	0.03	0.03	0.40	0.00	0.11	0.00	0.11	0.03	0.00	0.03	100.5	0.00	0.00	101.3
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Worker	20	40	20.0	0.01	0.01	0.08	0.00	0.02	0.00	0.02	0.01	0.00	0.01	20.1	0.00	0.00	20.3
Wilshire Blvd (Metro D Line) Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Worker	5	10	20.0	0.00	0.00	0.02	0.00	0.01	0.00	0.01	0.00	0.00	0.00	5.0	0.00	0.00	5.1
Wilshire Blvd (Metro D Line) Station-Drainage	4/1/2029	3/31/2030	6	312	10	2029	Worker	40	80	20.0	0.04	0.05	0.64	0.00	0.18	0.00	0.18	0.04	0.00	0.05	160.8	0.00	0.00	162.0
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	2029	Worker	40	80	20.0	0.03	0.03	0.43	0.00	0.12	0.00	0.12	0.03	0.00	0.03	107.7	0.00	0.00	108.5
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	2030	Worker	20	40	20.0	0.02	0.03	0.38	0.00	0.11	0.00	0.11	0.03	0.00	0.03	99.8	0.00	0.00	100.6
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Worker	60	120	20.0	0.15	0.14	2.29	0.01	0.79	0.00	0.79	0.20	0.00	0.20	703.1	0.01	0.01	707.6
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Worker	20	40	20.0	0.00	0.00	0.07	0.00	0.03	0.00	0.03	0.01	0.00	0.01	25.5	0.00	0.00	25.6
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Worker	20	40	20.0	0.01	0.01	0.23	0.00	0.09	0.00	0.09	0.02	0.00	0.02	77.3	0.00	0.00	77.8
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Worker	50	100	20.0	0.03	0.03	0.40	0.00	0.11	0.00	0.11	0.03	0.00	0.03	100.5	0.00	0.00	101.3
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	2029	Worker	20	40	20.0	0.01	0.01	0.16	0.00	0.04	0.00	0.04	0.01	0.00	0.01	40.2	0.00	0.00	40.5
Santa Monica Blvd Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Worker	5	10	20.0	0.00	0.00	0.02	0.00	0.01	0.00	0.01	0.00	0.00	0.00	5.0	0.00	0.00	5.1
Santa Monica Blvd Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Worker	40	80	20.0	0.01	0.02	0.21	0.00	0.06	0.00	0.06	0.01	0.00	0.02	53.6	0.00	0.00	54.0
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Worker	40	80	20.0	0.02	0.02	0.32	0.00	0.09	0.00	0.09	0.02	0.00	0.02	80.4	0.00	0.00	81.0
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Worker	20	40	20.0	0.01	0.02	0.23	0.00	0.07	0.00	0.07	0.02	0.00	0.02	60.3	0.00	0.00	60.7
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Worker	60	120	20.0	0.15	0.14	2.29	0.01	0.79	0.00	0.79	0.20	0.00	0.20	703.1	0.01	0.01	707.6
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Worker	20	40	20.0	0.00	0.00	0.07	0.00	0.03	0.00	0.03	0.01	0.00	0.01	25.5	0.00	0.00	25.6
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Worker	20	40	20.0	0.01	0.01	0.23	0.00	0.09	0.00	0.09	0.02	0.00	0.02	77.3	0.00	0.00	77.8
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Worker	50	100	20.0	0.03	0.03	0.40	0.00	0.11	0.00	0.11	0.03	0.00	0.03	100.5	0.00	0.00	101.3
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Worker	20	40	20.0	0.01	0.01	0.08	0.00	0.02	0.00	0.02	0.01	0.00	0.01	20.1	0.00	0.00	20.3
Metro E Line (Expo)/Bundy Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Worker	5	10	20.0	0.00	0.00	0.02	0.00	0.01	0.00	0.01	0.00	0.00	0.00	5.0	0.00	0.00	5.1
Metro E Line (Expo)/Bundy Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Worker	40	80	20.0	0.01	0.02	0.21	0.00	0.06	0.00	0.06	0.01	0.00	0.02	53.6	0.00	0.00	54.0
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	2029	Worker	40	80	20.0	0.04	0.05	0.64	0.00	0.18	0.00	0.18	0.04	0.00	0.05	161.3	0.00	0.00	162.6
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Worker	20	40	20.0	0.01	0.02	0.23	0.00	0.07	0.00	0.07	0.02	0.00	0.02	60.3	0.00	0.00	60.7
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Worker	60	120	20.0	0.15	0.15	2.35	0.01	0.81	0.00	0.81	0.21	0.00	0.21	721.8	0.01	0.01	726.5
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Worker	20	40	20.0	0.00	0.00	0.07	0.00	0.03	0.00	0.03	0.01	0.00	0.01	25.5	0.00	0.00	25.6
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Worker	20	40	20.0	0.01	0.01	0.23	0.00	0.09	0.00	0.09	0.02	0.00	0.02	77.0	0.00	0.00	77.5
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Worker	6	12	20.0	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.3	0.00	0.00	3.3
Vanowen St/Van Nuys Blvd TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Worker	6	12	20.0	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.2	0.00	0.00	3.3
Vanowen St/Van Nuys Blvd TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Worker	6	12	20.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.5	0.00	0.00	1.6
Magnolia TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Worker	6	12	20.0	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.3	0.00	0.00	3.3
Magnolia TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Worker	6	12	20.0	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.2	0.00	0.00	3.3
Magnolia TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Worker	6	12	20.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.5	0.00	0.00	1.6
Mid Mountain Shaft TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Worker	6	12	20.0	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.3	0.00	0.00	3.3
Mid Mountain Shaft TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Worker	6	12	20.0	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.2	0.00	0.00	3.3
Mid Mountain Shaft TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Worker	6	12	20.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.5	0.00	0.00	1.6
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	2033	Worker	10	20	20.0	0.00	0.00	0.05	0.00	0.02	0.00	0.02	0.00	0.00	0.00	16.1	0.00	0.00	16.2
OMSF-Grading	2/1/2033	7/31/2033	5	129	8	2033	Worker	10	20	20.0	0.00	0.00	0.05	0.00	0.02	0.00	0.02	0.00	0.00	0.00	16.1	0.00	0.00	16.2
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Worker	20	40	20.0	0.02	0.02	0.27	0.00	0.10	0.00	0.10	0.02	0.00	0.03	86.7	0.00	0.00	87.2
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	2033	Worker	10	20	20.0	0.00	0.00	0.05	0.00	0.02	0.00	0.02	0.00	0.00	0.00	16.1	0.00	0.00	16.2
OMSF-Drainage/Utilties	5/1/2033	10/31/2033	5	131	8	2033	Worker	10	20	20.0	0.00	0.00	0.05	0.00	0.02	0.00	0.02	0.00	0.00	0.00	16.3	0.00	0.00	16.4
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	2030	Worker	20	40	20.0	0.08	0.08	1.20	0.00	0.35	0.00	0.35	0.09	0.00	0.09	319.9	0.01	0.01	322.3

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Fleet Mix:** Light-Duty Mix (25% LDA/50% LDT1/25% LDT2); **Fuel Type:** Gasoline
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 6

SOIL/MATERIAL HAUL TRUCKS (ONSITE)

											Running Emission Factor (g/mile)[1,2,4]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Westside-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	0.1	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Segment 1-Westside-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Haul	2	2	0.1	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Segment 1-Westside-Tunnel Boring/Tunneling	9/1/2031	10/31/2032	6	366	20	2031	Haul	80	80	0.1	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Segment 1-Westside-TBM Retrieval/Tunnel Prep	11/1/2032	4/30/2033	6	156	20	2032	Haul	1	1	0.1	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Segment 1-Westside-Annular Grouting	9/1/2031	10/31/2032	6	366	20	2031	Haul	-	-	0.1	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Segment 1-Westside-Invert Construction	4/1/2034	7/31/2034	6	104	20	2034	Haul	-	-	0.1	0.03	4.53	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1854.7	0.00	0.29
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	2033	Haul	1	1	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Segment 1-Westside-Rail and Plinth	8/1/2034	1/31/2035	6	158	20	2034	Haul	-	-	0.1	0.03	4.53	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1854.7	0.00	0.29
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Haul	2	2	0.1	0.03	4.51	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1831.9	0.00	0.29
Segment 2-Mountain-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	0.1	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Segment 2-Mountain-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Haul	2	2	0.1	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Segment 2-Mountain-Tunnel Boring/Tunneling	9/1/2031	1/31/2034	6	758	20	2031	Haul	70	70	0.1	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Segment 2-Mountain-TBM Retrieval/Tunnel Prep	2/1/2034	7/31/2034	6	155	20	2034	Haul	1	1	0.1	0.03	4.53	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1854.7	0.00	0.29
Segment 2-Mountain-Annular Grouting	9/1/2031	1/31/2034	6	758	20	2031	Haul	-	-	0.1	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Segment 2-Mountain-Invert Construction	5/1/2035	2/28/2037	6	575	20	2035	Haul	-	-	0.1	0.03	4.51	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1831.9	0.00	0.29
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	2034	Haul	1	1	0.1	0.03	4.53	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1854.7	0.00	0.29
Segment 2-Mountain-Rail and Plinth	4/1/2036	3/31/2037	6	313	20	2036	Haul	-	-	0.1	0.03	4.48	0.31	0.02	184.11	0.01	184.12	18.39	0.01	18.40	1810.2	0.00	0.29
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	2036	Haul	2	2	0.1	0.03	4.48	0.31	0.02	184.11	0.01	184.12	18.39	0.01	18.40	1810.2	0.00	0.29
Segment 3-Valley-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	0.1	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Segment 3-Valley-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Haul	2	2	0.1	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Segment 3-Valley-Tunnel Boring/Tunneling	9/1/2031	8/31/2032	6	314	20	2031	Haul	80	80	0.1	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Segment 3-Valley-TBM Retrieval/Tunnel Prep	9/1/2032	2/28/2033	6	155	20	2032	Haul	1	1	0.1	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Segment 3-Valley-Annular Grouting	9/1/2031	8/31/2032	6	314	20	2031	Haul	-	-	0.1	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Segment 3-Valley-Invert Construction	4/1/2034	5/31/2035	6	365	20	2034	Haul	-	-	0.1	0.03	4.53	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1854.7	0.00	0.29
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	2032	Haul	1	1	0.1	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Segment 3-Valley-Rail and Plinth	8/1/2034	9/30/2035	6	365	20	2034	Haul	-	-	0.1	0.03	4.53	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1854.7	0.00	0.29
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Haul	2	2	0.1	0.03	4.51	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1831.9	0.00	0.29
Mid Mountain Shaft-Site Preparation/Demolition	11/1/2031	12/31/2031	6	52	10	2031	Haul	-	-	0.1	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	2031	Haul	120	120	0.1	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Mid Mountain Shaft-Drainage/Utilities	11/1/2031	12/31/2031	6	52	10	2031	Haul	10	10	0.1	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Mid Mountain Shaft-Shaft Drilling	1/1/2032	12/31/2032	6	314	10	2032	Haul	10	10	0.1	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Mid Mountain Shaft-Shaft Lining	1/1/2032	12/31/2032	6	314	10	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Mid Mountain Shaft-Cavern and Adit	1/1/2033	12/31/2033	6	313	10	2033	Haul	10	10	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	1	1	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	1	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Van Nuys Metrolink Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	1	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Van Nuys Metrolink Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	1	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Haul	2	2	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Haul	92	92	0.1	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Haul	6	6	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	2	2	0.1	0.03	4.48	0.31	0.02	184.11	0.01	184.12	18.39	0.01	18.40	1810.2	0.00	0.29
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Haul	1	1	0.1	0.03	4.51	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1831.9	0.00	0.29
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	1	1	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	1	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Metro G Line Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	1	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Metro G Line Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	1	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Haul	2	2	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Haul	116	116	0.1	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Haul	6	6	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	2	2	0.1	0.03	4.48	0.31	0.02	184.11	0.01	184.12	18.39	0.01	18.40	1810.2	0.00	0.29
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Haul	1	1	0.1	0.03	4.51	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1831.9	0.00	0.29
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	1	1	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	1	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Ventura Blvd Station-Grading	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	1	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Ventura Blvd Station-Drainage	4/1/2029	6/30/2030	6	390	10	2029	Haul	1	1	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	2030	Haul	2	2	0.1	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	2031	Haul	92	92	0.1	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Haul	6	6	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	2036	Haul	2	2	0.1	0.03	4.48	0.31	0.02	184.11	0.01	184.12	18.39	0.01	18.40	1810.2	0.00	0.29
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Haul	1	1	0.1	0.03	4.51	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1831.9	0.00	0.29

Sepulveda Transit Corridor Project - ALTERNATIVE 6

SOIL/MATERIAL HAUL TRUCKS (ONSITE)

											Non-Running Emission Factor (g/trip)[1,3]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Westside-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Segment 1-Westside-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Haul	2	2	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Segment 1-Westside-Tunnel Boring/Tunneling	9/1/2031	10/31/2032	6	366	20	2031	Haul	80	80	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Segment 1-Westside-TBM Retrieval/Tunnel Prep	11/1/2032	4/30/2033	6	156	20	2032	Haul	1	1	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
Segment 1-Westside-Annular Grouting	9/1/2031	10/31/2032	6	366	20	2031	Haul	-	-	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Segment 1-Westside-Invert Construction	4/1/2034	7/31/2034	6	104	20	2034	Haul	-	-	0.1	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	2033	Haul	1	1	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
Segment 1-Westside-Rail and Plinth	8/1/2034	1/31/2035	6	158	20	2034	Haul	-	-	0.1	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Haul	2	2	0.1	0.37	6.33	5.50	0.007	-	0.002	0.002	-	0.002	0.002	731.2	0.02	0.12
Segment 2-Mountain-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Segment 2-Mountain-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Haul	2	2	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Segment 2-Mountain-Tunnel Boring/Tunneling	9/1/2031	1/31/2034	6	758	20	2031	Haul	70	70	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Segment 2-Mountain-TBM Retrieval/Tunnel Prep	2/1/2034	7/31/2034	6	155	20	2034	Haul	1	1	0.1	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
Segment 2-Mountain-Annular Grouting	9/1/2031	1/31/2034	6	758	20	2031	Haul	-	-	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Segment 2-Mountain-Invert Construction	5/1/2035	2/28/2037	6	575	20	2035	Haul	-	-	0.1	0.37	6.33	5.50	0.007	-	0.002	0.002	-	0.002	0.002	731.2	0.02	0.12
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	2034	Haul	1	1	0.1	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
Segment 2-Mountain-Rail and Plinth	4/1/2036	3/31/2037	6	313	20	2036	Haul	-	-	0.1	0.37	6.31	5.54	0.007	-	0.002	0.002	-	0.002	0.002	730.1	0.02	0.12
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	2036	Haul	2	2	0.1	0.37	6.31	5.54	0.007	-	0.002	0.002	-	0.002	0.002	730.1	0.02	0.12
Segment 3-Valley-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Segment 3-Valley-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Haul	2	2	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Segment 3-Valley-Tunnel Boring/Tunneling	9/1/2031	8/31/2032	6	314	20	2031	Haul	80	80	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Segment 3-Valley-TBM Retrieval/Tunnel Prep	9/1/2032	2/28/2033	6	155	20	2032	Haul	1	1	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
Segment 3-Valley-Annular Grouting	9/1/2031	8/31/2032	6	314	20	2031	Haul	-	-	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Segment 3-Valley-Invert Construction	4/1/2034	5/31/2035	6	365	20	2034	Haul	-	-	0.1	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	2032	Haul	1	1	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
Segment 3-Valley-Rail and Plinth	8/1/2034	9/30/2035	6	365	20	2034	Haul	-	-	0.1	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Haul	2	2	0.1	0.37	6.33	5.50	0.007	-	0.002	0.002	-	0.002	0.002	731.2	0.02	0.12
Mid Mountain Shaft-Site Preparation/Demolition	11/1/2031	12/31/2031	6	52	10	2031	Haul	-	-	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	2031	Haul	120	120	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Mid Mountain Shaft-Drainage/Utilities	11/1/2031	12/31/2031	6	52	10	2031	Haul	10	10	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Mid Mountain Shaft-Shaft Drilling	1/1/2032	12/31/2032	6	314	10	2032	Haul	10	10	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
Mid Mountain Shaft-Shaft Lining	1/1/2032	12/31/2032	6	314	10	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
Mid Mountain Shaft-Cavern and Adit	1/1/2033	12/31/2033	6	313	10	2033	Haul	10	10	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	1	1	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	1	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Van Nuys Metrolink Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	1	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Van Nuys Metrolink Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	1	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Haul	2	2	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Haul	92	92	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Haul	6	6	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	2	2	0.1	0.37	6.31	5.54	0.007	-	0.002	0.002	-	0.002	0.002	730.1	0.02	0.12
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Haul	1	1	0.1	0.37	6.33	5.50	0.007	-	0.002	0.002	-	0.002	0.002	731.2	0.02	0.12
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	1	1	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	1	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Metro G Line Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	1	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Metro G Line Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	1	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Haul	2	2	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Haul	116	116	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Haul	6	6	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	2	2	0.1	0.37	6.31	5.54	0.007	-	0.002	0.002	-	0.002	0.002	730.1	0.02	0.12
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Haul	1	1	0.1	0.37	6.33	5.50	0.007	-	0.002	0.002	-	0.002	0.002	731.2	0.02	0.12
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	1	1	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	1	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Ventura Blvd Station-Grading	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	1	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Ventura Blvd Station-Drainage	4/1/2029	6/30/2030	6	390	10	2029	Haul	1	1	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	2030	Haul	2	2	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	2031	Haul	92	92	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Haul	6	6	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	2036	Haul	2	2	0.1	0.37	6.31	5.54	0.007	-	0.002	0.002	-	0.002	0.002	730.1	0.02	0.12
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Haul	1	1	0.1	0.37	6.33	5.50	0.007	-	0.002	0.002	-	0.002	0.002	731.2	0.02	0.12

Sepulveda Transit Corridor Project - ALTERNATIVE 6

SOIL/MATERIAL HAUL TRUCKS (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	Daily Emissions (lb/day)												
											ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Westside-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.2	0.00	0.00
Segment 1-Westside-Tunnel Boring/Tunneling	9/1/2031	10/31/2032	6	366	20	2031	Haul	80	80	0.1	0.07	1.22	0.96	0.00	3.25	0.00	3.25	0.32	0.00	0.32	166.5	0.00	0.03
Segment 1-Westside-TBM Retrieval/Tunnel Prep	11/1/2032	4/30/2033	6	156	20	2032	Haul	1	1	0.1	0.00	0.02	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	2.1	0.00	0.00
Segment 1-Westside-Annular Grouting	9/1/2031	10/31/2032	6	366	20	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Invert Construction	4/1/2034	7/31/2034	6	104	20	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	2033	Haul	1	1	0.1	0.00	0.02	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	2.0	0.00	0.00
Segment 1-Westside-Rail and Plinth	8/1/2034	1/31/2035	6	158	20	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.0	0.00	0.00
Segment 2-Mountain-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.2	0.00	0.00
Segment 2-Mountain-Tunnel Boring/Tunneling	9/1/2031	1/31/2034	6	758	20	2031	Haul	70	70	0.1	0.06	1.07	0.84	0.00	2.84	0.00	2.84	0.28	0.00	0.28	145.7	0.00	0.02
Segment 2-Mountain-TBM Retrieval/Tunnel Prep	2/1/2034	7/31/2034	6	155	20	2034	Haul	1	1	0.1	0.00	0.02	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	2.0	0.00	0.00
Segment 2-Mountain-Annular Grouting	9/1/2031	1/31/2034	6	758	20	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Invert Construction	5/1/2035	2/28/2037	6	575	20	2035	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	2034	Haul	1	1	0.1	0.00	0.02	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	2.0	0.00	0.00
Segment 2-Mountain-Rail and Plinth	4/1/2036	3/31/2037	6	313	20	2036	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	2036	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.0	0.00	0.00
Segment 3-Valley-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.2	0.00	0.00
Segment 3-Valley-Tunnel Boring/Tunneling	9/1/2031	8/31/2032	6	314	20	2031	Haul	80	80	0.1	0.07	1.22	0.96	0.00	3.25	0.00	3.25	0.32	0.00	0.32	166.5	0.00	0.03
Segment 3-Valley-TBM Retrieval/Tunnel Prep	9/1/2032	2/28/2033	6	155	20	2032	Haul	1	1	0.1	0.00	0.02	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	2.1	0.00	0.00
Segment 3-Valley-Annular Grouting	9/1/2031	8/31/2032	6	314	20	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Invert Construction	4/1/2034	5/31/2035	6	365	20	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	2032	Haul	1	1	0.1	0.00	0.02	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	2.1	0.00	0.00
Segment 3-Valley-Rail and Plinth	8/1/2034	9/30/2035	6	365	20	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.0	0.00	0.00
Mid Mountain Shaft-Site Preparation/Demolition	11/1/2031	12/31/2031	6	52	10	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	2031	Haul	120	120	0.1	0.10	1.83	1.44	0.00	4.87	0.00	4.87	0.49	0.00	0.49	249.8	0.00	0.04
Mid Mountain Shaft-Drainage/Utilities	11/1/2031	12/31/2031	6	52	10	2031	Haul	10	10	0.1	0.01	0.15	0.12	0.00	0.41	0.00	0.41	0.04	0.00	0.04	20.8	0.00	0.00
Mid Mountain Shaft-Shaft Drilling	1/1/2032	12/31/2032	6	314	10	2032	Haul	10	10	0.1	0.01	0.15	0.12	0.00	0.41	0.00	0.41	0.04	0.00	0.04	20.6	0.00	0.00
Mid Mountain Shaft-Shaft Lining	1/1/2032	12/31/2032	6	314	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Cavern and Adit	1/1/2033	12/31/2033	6	313	10	2033	Haul	10	10	0.1	0.01	0.15	0.12	0.00	0.41	0.00	0.41	0.04	0.00	0.04	20.4	0.00	0.00
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	1	1	0.1	0.00	0.02	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	2.1	0.00	0.00
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	1	0.1	0.00	0.02	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	2.1	0.00	0.00
Van Nuys Metrolink Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	1	0.1	0.00	0.02	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	2.1	0.00	0.00
Van Nuys Metrolink Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	1	0.1	0.00	0.02	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	2.1	0.00	0.00
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.3	0.00	0.00
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Haul	92	92	0.1	0.07	1.42	1.10	0.00	3.73	0.00	3.73	0.37	0.00	0.37	193.9	0.00	0.03
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Haul	6	6	0.1	0.00	0.09	0.07	0.00	0.24	0.00	0.24	0.02	0.00	0.02	12.3	0.00	0.00
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.0	0.00	0.00
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Haul	1	1	0.1	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	2.0	0.00	0.00
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	1	1	0.1	0.00	0.02	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	2.1	0.00	0.00
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	1	0.1	0.00	0.02	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	2.1	0.00	0.00
Metro G Line Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	1	0.1	0.00	0.02	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	2.1	0.00	0.00
Metro G Line Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	1	0.1	0.00	0.02	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	2.1	0.00	0.00
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.3	0.00	0.00
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Haul	116	116	0.1	0.09	1.79	1.39	0.00	4.71	0.00	4.71	0.47	0.00	0.47	244.4	0.00	0.04
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Haul	6	6	0.1	0.00	0.09	0.07	0.00	0.24	0.00	0.24	0.02	0.00	0.02	12.3	0.00	0.00
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.0	0.00	0.00
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Haul	1	1	0.1	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	2.0	0.00	0.00
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	1	1	0.1	0.00	0.02	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	2.1	0.00	0.00
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	1	0.1	0.00	0.02	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	2.1	0.00	0.00
Ventura Blvd Station-Grading	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	1	0.1	0.00	0.02	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	2.1	0.00	0.00
Ventura Blvd Station-Drainage	4/1/2029	6/30/2030	6	390	10	2029	Haul	1	1	0.1	0.00	0.02	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	2.1	0.00	0.00
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	2030	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.2	0.00	0.00
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	2031	Haul	92	92	0.1	0.07	1.40	1.10	0.00	3.73	0.00	3.73	0.37	0.00	0.37	191.5	0.00	0.03
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Haul	6	6	0.1	0.00	0.09	0.07	0.00	0.24	0.00	0.24	0.02	0.00	0.02	12.3	0.00	0.00
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	2036	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.0	0.00	0.00
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Haul	1	1	0.1	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	2.0	0.00	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 6

SOIL/MATERIAL HAUL TRUCKS (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	Total Emissions (tons) ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	Total Emissions (metric tons) CO_2	CH_4	N_2O	CO_2e
Segment 1-Westside-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Segment 1-Westside-Tunnel Boring/Tunneling	9/1/2031	10/31/2032	6	366	20	2031	Haul	80	80	0.1	0.01	0.22	0.18	0.00	0.59	0.00	0.59	0.06	0.00	0.06	27.6	0.00	0.00	29.0
Segment 1-Westside-TBM Retrieval/Tunnel Prep	11/1/2032	4/30/2033	6	156	20	2032	Haul	1	1	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.2
Segment 1-Westside-Annular Grouting	9/1/2031	10/31/2032	6	366	20	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Invert Construction	4/1/2034	7/31/2034	6	104	20	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	2033	Haul	1	1	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
Segment 1-Westside-Rail and Plinth	8/1/2034	1/31/2035	6	158	20	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.6	0.00	0.00	0.6
Segment 2-Mountain-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Segment 2-Mountain-Tunnel Boring/Tunneling	9/1/2031	1/31/2034	6	758	20	2031	Haul	70	70	0.1	0.02	0.40	0.32	0.00	1.08	0.00	1.08	0.11	0.00	0.11	50.1	0.00	0.01	52.5
Segment 2-Mountain-TBM Retrieval/Tunnel Prep	2/1/2034	7/31/2034	6	155	20	2034	Haul	1	1	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Segment 2-Mountain-Annular Grouting	9/1/2031	1/31/2034	6	758	20	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Invert Construction	5/1/2035	2/28/2037	6	575	20	2035	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	2034	Haul	1	1	0.1	0.00	0.01	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.7	0.00	0.00	0.7
Segment 2-Mountain-Rail and Plinth	4/1/2036	3/31/2037	6	313	20	2036	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	2036	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.6	0.00	0.00	0.6
Segment 3-Valley-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Segment 3-Valley-Tunnel Boring/Tunneling	9/1/2031	8/31/2032	6	314	20	2031	Haul	80	80	0.1	0.01	0.19	0.15	0.00	0.51	0.00	0.51	0.05	0.00	0.05	23.7	0.00	0.00	24.8
Segment 3-Valley-TBM Retrieval/Tunnel Prep	9/1/2032	2/28/2033	6	155	20	2032	Haul	1	1	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.2
Segment 3-Valley-Annular Grouting	9/1/2031	8/31/2032	6	314	20	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Invert Construction	4/1/2034	5/31/2035	6	365	20	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	2032	Haul	1	1	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.5	0.00	0.00	0.5
Segment 3-Valley-Rail and Plinth	8/1/2034	9/30/2035	6	365	20	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.6	0.00	0.00	0.6
Mid Mountain Shaft-Site Preparation/Demolition	11/1/2031	12/31/2031	6	52	10	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	2031	Haul	120	120	0.1	0.01	0.14	0.11	0.00	0.38	0.00	0.38	0.04	0.00	0.04	17.9	0.00	0.00	18.7
Mid Mountain Shaft-Drainage/Utilities	11/1/2031	12/31/2031	6	52	10	2031	Haul	10	10	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.5	0.00	0.00	0.5
Mid Mountain Shaft-Shaft Drilling	1/1/2032	12/31/2032	6	314	10	2032	Haul	10	10	0.1	0.00	0.02	0.02	0.00	0.06	0.00	0.06	0.01	0.00	0.01	2.9	0.00	0.00	3.1
Mid Mountain Shaft-Shaft Lining	1/1/2032	12/31/2032	6	314	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Cavern and Adit	1/1/2033	12/31/2033	6	313	10	2033	Haul	10	10	0.1	0.00	0.02	0.02	0.00	0.06	0.00	0.06	0.01	0.00	0.01	2.9	0.00	0.00	3.0
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	1	1	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	1	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Van Nuys Metrolink Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	1	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Van Nuys Metrolink Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	1	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Haul	92	92	0.1	0.01	0.17	0.13	0.00	0.44	0.00	0.44	0.04	0.00	0.04	20.8	0.00	0.00	21.7
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Haul	6	6	0.1	0.00	0.04	0.03	0.00	0.12	0.00	0.12	0.01	0.00	0.01	5.4	0.00	0.00	5.6
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Haul	1	1	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	1	1	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	1	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Metro G Line Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	1	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Metro G Line Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	1	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Haul	116	116	0.1	0.01	0.21	0.16	0.00	0.56	0.00	0.56	0.06	0.00	0.06	26.2	0.00	0.00	27.4
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Haul	6	6	0.1	0.00	0.04	0.03	0.00	0.11	0.00	0.11	0.01	0.00	0.01	5.2	0.00	0.00	5.5
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Haul	1	1	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	1	1	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	1	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Ventura Blvd Station-Grading	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	1	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Ventura Blvd Station-Drainage	4/1/2029	6/30/2030	6	390	10	2029	Haul	1	1	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	2030	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	2031	Haul	92	92	0.1	0.01	0.16	0.13	0.00	0.44	0.00	0.44	0.04	0.00	0.04	20.3	0.00	0.00	21.3
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Haul	6	6	0.1	0.00	0.04	0.03	0.00	0.11	0.00	0.11	0.01	0.00	0.01	5.2	0.00	0.00	5.5
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	2036	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Haul	1	1	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3

Sepulveda Transit Corridor Project - ALTERNATIVE 6

SOIL/MATERIAL HAUL TRUCKS (ONSITE)

											Running Emission Factor (g/mile)[1,2,4]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Haul	1	1	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	2029	Haul	1	1	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
UCLA Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	1	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
UCLA Station-Drainage	4/1/2029	12/31/2029	6	235	10	2029	Haul	1	1	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Haul	2	2	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	2030	Haul	103	103	0.1	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	2034	Haul	6	6	0.1	0.03	4.53	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1854.7	0.00	0.29
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	2036	Haul	2	2	0.1	0.03	4.48	0.31	0.02	184.11	0.01	184.12	18.39	0.01	18.40	1810.2	0.00	0.29
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	2036	Haul	1	1	0.1	0.03	4.48	0.31	0.02	184.11	0.01	184.12	18.39	0.01	18.40	1810.2	0.00	0.29
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	1	1	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	1	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Wilshire Blvd (Metro D Line) Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	1	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Wilshire Blvd (Metro D Line) Station-Drainage	4/1/2029	3/31/2030	6	312	10	2029	Haul	1	1	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	2029	Haul	2	2	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	2030	Haul	56	56	0.1	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Haul	6	6	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	2	2	0.1	0.03	4.48	0.31	0.02	184.11	0.01	184.12	18.39	0.01	18.40	1810.2	0.00	0.29
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Haul	1	1	0.1	0.03	4.51	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1831.9	0.00	0.29
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	1	1	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	2029	Haul	1	1	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Santa Monica Blvd Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	1	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Santa Monica Blvd Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	1	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Haul	2	2	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Haul	105	105	0.1	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Haul	6	6	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	2	2	0.1	0.03	4.48	0.31	0.02	184.11	0.01	184.12	18.39	0.01	18.40	1810.2	0.00	0.29
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Haul	1	1	0.1	0.03	4.51	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1831.9	0.00	0.29
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	1	1	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	1	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Metro E Line (Expo)/Bundy Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	1	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Metro E Line (Expo)/Bundy Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	1	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	2029	Haul	2	2	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Haul	149	149	0.1	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Haul	6	6	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	2	2	0.1	0.03	4.48	0.31	0.02	184.11	0.01	184.12	18.39	0.01	18.40	1810.2	0.00	0.29
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Haul	1	1	0.1	0.03	4.51	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1831.9	0.00	0.29
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Haul	1	1	0.1	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Vanowen St/Van Nuys Blvd TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Haul	-	-	0.1	0.03	4.51	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1831.9	0.00	0.29
Vanowen St/Van Nuys Blvd TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Haul	-	-	0.1	0.03	4.48	0.31	0.02	184.11	0.01	184.12	18.39	0.01	18.40	1810.2	0.00	0.29
Magnolia TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Haul	1	1	0.1	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Magnolia TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Haul	-	-	0.1	0.03	4.51	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1831.9	0.00	0.29
Magnolia TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Haul	-	-	0.1	0.03	4.48	0.31	0.02	184.11	0.01	184.12	18.39	0.01	18.40	1810.2	0.00	0.29
Mid Mountain Shaft TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Haul	1	1	0.1	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Mid Mountain Shaft TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Haul	-	-	0.1	0.03	4.51	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1831.9	0.00	0.29
Mid Mountain Shaft TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Haul	-	-	0.1	0.03	4.48	0.31	0.02	184.11	0.01	184.12	18.39	0.01	18.40	1810.2	0.00	0.29
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
OMSF-Grading	2/1/2033	7/31/2033	5	129	8	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Haul	-	-	0.1	0.03	4.53	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1854.7	0.00	0.29
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
OMSF-Drainage/Utilties	5/1/2033	10/31/2033	5	131	8	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	2030	Haul	28	28	0.1	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** 100% HHDT; **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 6

SOIL/MATERIAL HAUL TRUCKS (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	Non-Running Emission Factor (g/trip)[1,3] ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Haul	1	1	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	2029	Haul	1	1	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
UCLA Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	1	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
UCLA Station-Drainage	4/1/2029	12/31/2029	6	235	10	2029	Haul	1	1	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Haul	2	2	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	2030	Haul	103	103	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	2034	Haul	6	6	0.1	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	2036	Haul	2	2	0.1	0.37	6.31	5.54	0.007	-	0.002	0.002	-	0.002	0.002	730.1	0.02	0.12
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	2036	Haul	1	1	0.1	0.37	6.31	5.54	0.007	-	0.002	0.002	-	0.002	0.002	730.1	0.02	0.12
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	1	1	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	1	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Wilshire Blvd (Metro D Line) Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	1	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Wilshire Blvd (Metro D Line) Station-Drainage	4/1/2029	3/31/2030	6	312	10	2029	Haul	1	1	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	2029	Haul	2	2	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	2030	Haul	56	56	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Haul	6	6	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	2	2	0.1	0.37	6.31	5.54	0.007	-	0.002	0.002	-	0.002	0.002	730.1	0.02	0.12
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Haul	1	1	0.1	0.37	6.33	5.50	0.007	-	0.002	0.002	-	0.002	0.002	731.2	0.02	0.12
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	1	1	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	2029	Haul	1	1	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Santa Monica Blvd Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	1	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Santa Monica Blvd Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	1	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Haul	2	2	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Haul	105	105	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Haul	6	6	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	2	2	0.1	0.37	6.31	5.54	0.007	-	0.002	0.002	-	0.002	0.002	730.1	0.02	0.12
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Haul	1	1	0.1	0.37	6.33	5.50	0.007	-	0.002	0.002	-	0.002	0.002	731.2	0.02	0.12
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	1	1	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	1	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Metro E Line (Expo)/Bundy Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	1	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Metro E Line (Expo)/Bundy Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	1	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	2029	Haul	2	2	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Haul	149	149	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Haul	6	6	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	2	2	0.1	0.37	6.31	5.54	0.007	-	0.002	0.002	-	0.002	0.002	730.1	0.02	0.12
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Haul	1	1	0.1	0.37	6.33	5.50	0.007	-	0.002	0.002	-	0.002	0.002	731.2	0.02	0.12
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Haul	1	1	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Vanowen St/Van Nuys Blvd TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Haul	-	-	0.1	0.37	6.33	5.50	0.007	-	0.002	0.002	-	0.002	0.002	731.2	0.02	0.12
Vanowen St/Van Nuys Blvd TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Haul	-	-	0.1	0.37	6.31	5.54	0.007	-	0.002	0.002	-	0.002	0.002	730.1	0.02	0.12
Magnolia TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Haul	1	1	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Magnolia TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Haul	-	-	0.1	0.37	6.33	5.50	0.007	-	0.002	0.002	-	0.002	0.002	731.2	0.02	0.12
Magnolia TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Haul	-	-	0.1	0.37	6.31	5.54	0.007	-	0.002	0.002	-	0.002	0.002	730.1	0.02	0.12
Mid Mountain Shaft TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Haul	1	1	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Mid Mountain Shaft TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Haul	-	-	0.1	0.37	6.33	5.50	0.007	-	0.002	0.002	-	0.002	0.002	731.2	0.02	0.12
Mid Mountain Shaft TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Haul	-	-	0.1	0.37	6.31	5.54	0.007	-	0.002	0.002	-	0.002	0.002	730.1	0.02	0.12
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
OMSF-Grading	2/1/2033	7/31/2033	5	129	8	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Haul	-	-	0.1	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
OMSF-Drainage/Utilties	5/1/2033	10/31/2033	5	131	8	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	2030	Haul	28	28	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** 100% HHDT; **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 6

SOIL/MATERIAL HAUL TRUCKS (ONSITE)

											Daily Emissions (lb/day)												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Haul	1	1	0.1	0.00	0.02	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	2.1	0.00	0.00
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	2029	Haul	1	1	0.1	0.00	0.02	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	2.1	0.00	0.00
UCLA Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	1	0.1	0.00	0.02	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	2.1	0.00	0.00
UCLA Station-Drainage	4/1/2029	12/31/2029	6	235	10	2029	Haul	1	1	0.1	0.00	0.02	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	2.1	0.00	0.00
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.3	0.00	0.00
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	2030	Haul	103	103	0.1	0.08	1.59	1.23	0.00	4.18	0.00	4.18	0.42	0.00	0.42	217.0	0.00	0.03
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	2034	Haul	6	6	0.1	0.00	0.09	0.07	0.00	0.24	0.00	0.24	0.02	0.00	0.02	12.2	0.00	0.00
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	2036	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.0	0.00	0.00
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	2036	Haul	1	1	0.1	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	2.0	0.00	0.00
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	1	1	0.1	0.00	0.02	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	2.1	0.00	0.00
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	1	0.1	0.00	0.02	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	2.1	0.00	0.00
Wilshire Blvd (Metro D Line) Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	1	0.1	0.00	0.02	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	2.1	0.00	0.00
Wilshire Blvd (Metro D Line) Station-Drainage	4/1/2029	3/31/2030	6	312	10	2029	Haul	1	1	0.1	0.00	0.02	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	2.1	0.00	0.00
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	2029	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.3	0.00	0.00
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	2030	Haul	56	56	0.1	0.05	0.86	0.67	0.00	2.27	0.00	2.27	0.23	0.00	0.23	118.0	0.00	0.02
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Haul	6	6	0.1	0.00	0.09	0.07	0.00	0.24	0.00	0.24	0.02	0.00	0.02	12.3	0.00	0.00
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.0	0.00	0.00
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Haul	1	1	0.1	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	2.0	0.00	0.00
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	1	1	0.1	0.00	0.02	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	2.1	0.00	0.00
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	2029	Haul	1	1	0.1	0.00	0.02	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	2.1	0.00	0.00
Santa Monica Blvd Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	1	0.1	0.00	0.02	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	2.1	0.00	0.00
Santa Monica Blvd Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	1	0.1	0.00	0.02	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	2.1	0.00	0.00
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.3	0.00	0.00
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Haul	105	105	0.1	0.09	1.62	1.25	0.00	4.26	0.00	4.26	0.43	0.00	0.43	221.2	0.00	0.03
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Haul	6	6	0.1	0.00	0.09	0.07	0.00	0.24	0.00	0.24	0.02	0.00	0.02	12.3	0.00	0.00
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.0	0.00	0.00
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Haul	1	1	0.1	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	2.0	0.00	0.00
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	1	1	0.1	0.00	0.02	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	2.1	0.00	0.00
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	1	0.1	0.00	0.02	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	2.1	0.00	0.00
Metro E Line (Expo)/Bundy Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	1	0.1	0.00	0.02	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	2.1	0.00	0.00
Metro E Line (Expo)/Bundy Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	1	0.1	0.00	0.02	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	2.1	0.00	0.00
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	2029	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.3	0.00	0.00
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Haul	149	149	0.1	0.12	2.30	1.78	0.00	6.05	0.00	6.05	0.60	0.00	0.60	314.0	0.01	0.05
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Haul	6	6	0.1	0.00	0.09	0.07	0.00	0.24	0.00	0.24	0.02	0.00	0.02	12.3	0.00	0.00
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.0	0.00	0.00
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Haul	1	1	0.1	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	2.0	0.00	0.00
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Haul	1	1	0.1	0.00	0.02	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	2.1	0.00	0.00
Vanowen St/Van Nuys Blvd TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanowen St/Van Nuys Blvd TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnolia TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Haul	1	1	0.1	0.00	0.02	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	2.1	0.00	0.00
Magnolia TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnolia TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Haul	1	1	0.1	0.00	0.02	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	2.1	0.00	0.00
Mid Mountain Shaft TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Grading	2/1/2033	7/31/2033	5	129	8	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Drainage/Utilties	5/1/2033	10/31/2033	5	131	8	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	2030	Haul	28	28	0.1	0.02	0.43	0.33	0.00	1.14	0.00	1.14	0.11	0.00	0.11	59.0	0.00	0.01

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** 100% HHDT; **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 6

SOIL/MATERIAL HAUL TRUCKS (ONSITE)

											Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Haul	1	1	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.5	0.00	0.00	0.5
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	2029	Haul	1	1	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.5	0.00	0.00	0.5
UCLA Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	1	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
UCLA Station-Drainage	4/1/2029	12/31/2029	6	235	10	2029	Haul	1	1	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.2	0.00	0.00	0.2
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	2030	Haul	103	103	0.1	0.01	0.25	0.19	0.00	0.65	0.00	0.65	0.07	0.00	0.07	30.8	0.00	0.00	32.3
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	2034	Haul	6	6	0.1	0.00	0.04	0.03	0.00	0.11	0.00	0.11	0.01	0.00	0.01	5.2	0.00	0.00	5.4
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	2036	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	2036	Haul	1	1	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	1	1	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	1	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Wilshire Blvd (Metro D Line) Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	1	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Wilshire Blvd (Metro D Line) Station-Drainage	4/1/2029	3/31/2030	6	312	10	2029	Haul	1	1	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	2029	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	2030	Haul	56	56	0.1	0.01	0.17	0.13	0.00	0.44	0.00	0.44	0.04	0.00	0.04	20.9	0.00	0.00	21.9
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Haul	6	6	0.1	0.00	0.04	0.03	0.00	0.11	0.00	0.11	0.01	0.00	0.01	5.2	0.00	0.00	5.5
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Haul	1	1	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	1	1	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	2029	Haul	1	1	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Santa Monica Blvd Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	1	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Santa Monica Blvd Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	1	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Haul	105	105	0.1	0.01	0.19	0.15	0.00	0.50	0.00	0.50	0.05	0.00	0.05	23.7	0.00	0.00	24.8
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Haul	6	6	0.1	0.00	0.04	0.03	0.00	0.11	0.00	0.11	0.01	0.00	0.01	5.2	0.00	0.00	5.5
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Haul	1	1	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	1	1	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	1	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Metro E Line (Expo)/Bundy Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	1	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Metro E Line (Expo)/Bundy Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	1	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	2029	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.6	0.00	0.00	0.6
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Haul	149	149	0.1	0.01	0.27	0.21	0.00	0.71	0.00	0.71	0.07	0.00	0.07	33.6	0.00	0.01	35.2
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Haul	6	6	0.1	0.00	0.04	0.03	0.00	0.12	0.00	0.12	0.01	0.00	0.01	5.4	0.00	0.00	5.6
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Haul	1	1	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Haul	1	1	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.0
Vanowen St/Van Nuys Blvd TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanowen St/Van Nuys Blvd TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnolia TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Haul	1	1	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.0
Magnolia TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnolia TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Haul	1	1	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.0
Mid Mountain Shaft TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Grading	2/1/2033	7/31/2033	5	129	8	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Drainage/Utilties	5/1/2033	10/31/2033	5	131	8	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	2030	Haul	28	28	0.1	0.01	0.27	0.21	0.00	0.71	0.00	0.71	0.07	0.00	0.07	33.5	0.00	0.01	35.1

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** 100% HHDT; **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 6

SOIL/MATERIAL HAUL TRUCKS (OFFSITE)

											Running Emission Factor (g/mile)[1,2]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Westside-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	20.0	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Segment 1-Westside-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Haul	2	4	40.0	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Segment 1-Westside-Tunnel Boring/Tunneling	9/1/2031	10/31/2032	6	366	20	2031	Haul	80	160	20.0	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Segment 1-Westside-TBM Retrieval/Tunnel Prep	11/1/2032	4/30/2033	6	156	20	2032	Haul	1	2	20.0	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Segment 1-Westside-Annular Grouting	9/1/2031	10/31/2032	6	366	20	2031	Haul	-	-	20.0	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Segment 1-Westside-Invert Construction	4/1/2034	7/31/2034	6	104	20	2034	Haul	-	-	20.0	0.01	1.27	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1356.7	0.00	0.21
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	2033	Haul	1	2	20.0	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Segment 1-Westside-Rail and Plinth	8/1/2034	1/31/2035	6	158	20	2034	Haul	-	-	20.0	0.01	1.27	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1356.7	0.00	0.21
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Haul	2	4	20.0	0.01	1.25	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1342.3	0.00	0.21
Segment 2-Mountain-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	-	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Segment 2-Mountain-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Haul	2	4	40.0	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Segment 2-Mountain-Tunnel Boring/Tunneling	9/1/2031	1/31/2034	6	758	20	2031	Haul	70	140	20.0	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Segment 2-Mountain-TBM Retrieval/Tunnel Prep	2/1/2034	7/31/2034	6	155	20	2034	Haul	1	2	20.0	0.01	1.27	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1356.7	0.00	0.21
Segment 2-Mountain-Annular Grouting	9/1/2031	1/31/2034	6	758	20	2031	Haul	-	-	20.0	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Segment 2-Mountain-Invert Construction	5/1/2035	2/28/2037	6	575	20	2035	Haul	-	-	20.0	0.01	1.25	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1342.3	0.00	0.21
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	2034	Haul	1	2	20.0	0.01	1.27	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1356.7	0.00	0.21
Segment 2-Mountain-Rail and Plinth	4/1/2036	3/31/2037	6	313	20	2036	Haul	-	-	20.0	0.01	1.24	0.04	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1327.5	0.00	0.21
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	2036	Haul	2	4	20.0	0.01	1.24	0.04	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1327.5	0.00	0.21
Segment 3-Valley-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	-	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Segment 3-Valley-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Haul	2	4	40.0	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Segment 3-Valley-Tunnel Boring/Tunneling	9/1/2031	8/31/2032	6	314	20	2031	Haul	80	160	20.0	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Segment 3-Valley-TBM Retrieval/Tunnel Prep	9/1/2032	2/28/2033	6	155	20	2032	Haul	1	2	20.0	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Segment 3-Valley-Annular Grouting	9/1/2031	8/31/2032	6	314	20	2031	Haul	-	-	20.0	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Segment 3-Valley-Invert Construction	4/1/2034	5/31/2035	6	365	20	2034	Haul	-	-	20.0	0.01	1.27	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1356.7	0.00	0.21
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	2032	Haul	1	2	20.0	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Segment 3-Valley-Rail and Plinth	8/1/2034	9/30/2035	6	365	20	2034	Haul	-	-	20.0	0.01	1.27	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1356.7	0.00	0.21
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Haul	2	4	20.0	0.01	1.25	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1342.3	0.00	0.21
Mid Mountain Shaft-Site Preparation/Demolition	11/1/2031	12/31/2031	6	52	10	2031	Haul	-	-	20.0	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	2031	Haul	120	240	20.0	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Mid Mountain Shaft-Drainage/Utilities	11/1/2031	12/31/2031	6	52	10	2031	Haul	10	20	20.0	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Mid Mountain Shaft-Shaft Drilling	1/1/2032	12/31/2032	6	314	10	2032	Haul	10	-	20.0	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Mid Mountain Shaft-Shaft Lining	1/1/2032	12/31/2032	6	314	10	2032	Haul	-	-	20.0	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Mid Mountain Shaft-Cavern and Adit	1/1/2033	12/31/2033	6	313	10	2033	Haul	10	-	20.0	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	1	2	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	2	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Van Nuys Metrolink Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	2	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Van Nuys Metrolink Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	2	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Haul	2	4	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Haul	92	184	20.0	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Haul	6	12	20.0	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	2	4	20.0	0.01	1.24	0.04	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1327.5	0.00	0.21
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Haul	1	2	20.0	0.01	1.25	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1342.3	0.00	0.21
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	1	2	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	2	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Metro G Line Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	2	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Metro G Line Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	2	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Haul	2	4	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Haul	116	232	20.0	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Haul	6	12	20.0	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	2	4	20.0	0.01	1.24	0.04	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1327.5	0.00	0.21
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Haul	1	2	20.0	0.01	1.25	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1342.3	0.00	0.21
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	1	2	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	2	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Ventura Blvd Station-Grading	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	2	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Ventura Blvd Station-Drainage	4/1/2029	6/30/2030	6	390	10	2029	Haul	1	2	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	2030	Haul	2	4	20.0	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	2031	Haul	92	184	20.0	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Haul	6	12	20.0	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	2036	Haul	2	4	20.0	0.01	1.24	0.04	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1327.5	0.00	0.21
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Haul	1	2	20.0	0.01	1.25	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1342.3	0.00	0.21

Sepulveda Transit Corridor Project - ALTERNATIVE 6

SOIL/MATERIAL HAUL TRUCKS (OFFSITE)

											Non-Running Emission Factor (g/trip)[1,3]													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Westside-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	20.0	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Segment 1-Westside-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Haul	2	4	40.0	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Segment 1-Westside-Tunnel Boring/Tunneling	9/1/2031	10/31/2032	6	366	20	2031	Haul	80	160	20.0	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Segment 1-Westside-TBM Retrieval/Tunnel Prep	11/1/2032	4/30/2033	6	156	20	2032	Haul	1	2	20.0	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
Segment 1-Westside-Annular Grouting	9/1/2031	10/31/2032	6	366	20	2031	Haul	-	-	20.0	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Segment 1-Westside-Invert Construction	4/1/2034	7/31/2034	6	104	20	2034	Haul	-	-	20.0	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	2033	Haul	1	2	20.0	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
Segment 1-Westside-Rail and Plinth	8/1/2034	1/31/2035	6	158	20	2034	Haul	-	-	20.0	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Haul	2	4	20.0	0.37	6.33	5.50	0.007	-	0.002	0.002	-	0.002	0.002	731.2	0.02	0.12
Segment 2-Mountain-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	-	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Segment 2-Mountain-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Haul	2	4	40.0	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Segment 2-Mountain-Tunnel Boring/Tunneling	9/1/2031	1/31/2034	6	758	20	2031	Haul	70	140	20.0	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Segment 2-Mountain-TBM Retrieval/Tunnel Prep	2/1/2034	7/31/2034	6	155	20	2034	Haul	1	2	20.0	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
Segment 2-Mountain-Annular Grouting	9/1/2031	1/31/2034	6	758	20	2031	Haul	-	-	20.0	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Segment 2-Mountain-Invert Construction	5/1/2035	2/28/2037	6	575	20	2035	Haul	-	-	20.0	0.37	6.33	5.50	0.007	-	0.002	0.002	-	0.002	0.002	731.2	0.02	0.12
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	2034	Haul	1	2	20.0	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
Segment 2-Mountain-Rail and Plinth	4/1/2036	3/31/2037	6	313	20	2036	Haul	-	-	20.0	0.37	6.31	5.54	0.007	-	0.002	0.002	-	0.002	0.002	730.1	0.02	0.12
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	2036	Haul	2	4	20.0	0.37	6.31	5.54	0.007	-	0.002	0.002	-	0.002	0.002	730.1	0.02	0.12
Segment 3-Valley-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	-	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Segment 3-Valley-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Haul	2	4	40.0	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Segment 3-Valley-Tunnel Boring/Tunneling	9/1/2031	8/31/2032	6	314	20	2031	Haul	80	160	20.0	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Segment 3-Valley-TBM Retrieval/Tunnel Prep	9/1/2032	2/28/2033	6	155	20	2032	Haul	1	2	20.0	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
Segment 3-Valley-Annular Grouting	9/1/2031	8/31/2032	6	314	20	2031	Haul	-	-	20.0	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Segment 3-Valley-Invert Construction	4/1/2034	5/31/2035	6	365	20	2034	Haul	-	-	20.0	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	2032	Haul	1	2	20.0	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
Segment 3-Valley-Rail and Plinth	8/1/2034	9/30/2035	6	365	20	2034	Haul	-	-	20.0	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Haul	2	4	20.0	0.37	6.33	5.50	0.007	-	0.002	0.002	-	0.002	0.002	731.2	0.02	0.12
Mid Mountain Shaft-Site Preparation/Demolition	11/1/2031	12/31/2031	6	52	10	2031	Haul	-	-	20.0	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	2031	Haul	120	240	20.0	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Mid Mountain Shaft-Drainage/Utilities	11/1/2031	12/31/2031	6	52	10	2031	Haul	10	20	20.0	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Mid Mountain Shaft-Shaft Drilling	1/1/2032	12/31/2032	6	314	10	2032	Haul	10	-	20.0	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
Mid Mountain Shaft-Shaft Lining	1/1/2032	12/31/2032	6	314	10	2032	Haul	-	-	20.0	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
Mid Mountain Shaft-Cavern and Adit	1/1/2033	12/31/2033	6	313	10	2033	Haul	10	-	20.0	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	1	2	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	2	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Van Nuys Metrolink Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	2	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Van Nuys Metrolink Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	2	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Haul	2	4	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Haul	92	184	20.0	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Haul	6	12	20.0	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	2	4	20.0	0.37	6.31	5.54	0.007	-	0.002	0.002	-	0.002	0.002	730.1	0.02	0.12
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Haul	1	2	20.0	0.37	6.33	5.50	0.007	-	0.002	0.002	-	0.002	0.002	731.2	0.02	0.12
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	1	2	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	2	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Metro G Line Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	2	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Metro G Line Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	2	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Haul	2	4	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Haul	116	232	20.0	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Haul	6	12	20.0	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	2	4	20.0	0.37	6.31	5.54	0.007	-	0.002	0.002	-	0.002	0.002	730.1	0.02	0.12
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Haul	1	2	20.0	0.37	6.33	5.50	0.007	-	0.002	0.002	-	0.002	0.002	731.2	0.02	0.12
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	1	2	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	2	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Ventura Blvd Station-Grading	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	2	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Ventura Blvd Station-Drainage	4/1/2029	6/30/2030	6	390	10	2029	Haul	1	2	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	2030	Haul	2	4	20.0	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	2031	Haul	92	184	20.0	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Haul	6	12	20.0	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	2036	Haul	2	4	20.0	0.37	6.31	5.54	0.007	-	0.002	0.002	-	0.002	0.002	730.1	0.02	0.12
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Haul	1	2	20.0	0.37	6.33	5.50	0.007	-	0.002	0.002	-	0.002	0.002	731.2	0.02	0.12

Sepulveda Transit Corridor Project - ALTERNATIVE 6

SOIL/MATERIAL HAUL TRUCKS (OFFSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Daily Emissions (lb/day)												
											ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Westside-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Haul	2	4	40.0	0.01	0.52	0.07	0.00	0.15	0.01	0.16	0.04	0.01	0.05	503	0.00	0.08
Segment 1-Westside-Tunnel Boring/Tunneling	9/1/2031	10/31/2032	6	366	20	2031	Haul	80	160	20.0	0.21	11.53	2.26	0.10	2.93	0.18	3.11	0.79	0.18	0.96	10199	0.01	1.61
Segment 1-Westside-TBM Retrieval/Tunnel Prep	11/1/2032	4/30/2033	6	156	20	2032	Haul	1	2	20.0	0.00	0.14	0.03	0.00	0.04	0.00	0.04	0.01	0.00	0.01	126	0.00	0.02
Segment 1-Westside-Annular Grouting	9/1/2031	10/31/2032	6	366	20	2031	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Invert Construction	4/1/2034	7/31/2034	6	104	20	2034	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	2033	Haul	1	2	20.0	0.00	0.14	0.03	0.00	0.04	0.00	0.04	0.01	0.00	0.01	124	0.00	0.02
Segment 1-Westside-Rail and Plinth	8/1/2034	1/31/2035	6	158	20	2034	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Haul	2	4	20.0	0.01	0.28	0.06	0.00	0.07	0.00	0.08	0.02	0.00	0.02	243	0.00	0.04
Segment 2-Mountain-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Haul	2	4	40.0	0.01	0.52	0.07	0.00	0.15	0.01	0.16	0.04	0.01	0.05	503	0.00	0.08
Segment 2-Mountain-Tunnel Boring/Tunneling	9/1/2031	1/31/2034	6	758	20	2031	Haul	70	140	20.0	0.18	10.09	1.98	0.08	2.56	0.16	2.72	0.69	0.15	0.84	8924	0.01	1.41
Segment 2-Mountain-TBM Retrieval/Tunnel Prep	2/1/2034	7/31/2034	6	155	20	2034	Haul	1	2	20.0	0.00	0.14	0.03	0.00	0.04	0.00	0.04	0.01	0.00	0.01	123	0.00	0.02
Segment 2-Mountain-Annular Grouting	9/1/2031	1/31/2034	6	758	20	2031	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Invert Construction	5/1/2035	2/28/2037	6	575	20	2035	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	2034	Haul	1	2	20.0	0.00	0.14	0.03	0.00	0.04	0.00	0.04	0.01	0.00	0.01	123	0.00	0.02
Segment 2-Mountain-Rail and Plinth	4/1/2036	3/31/2037	6	313	20	2036	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	2036	Haul	2	4	20.0	0.01	0.27	0.06	0.00	0.07	0.00	0.08	0.02	0.00	0.02	241	0.00	0.04
Segment 3-Valley-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Haul	2	4	40.0	0.01	0.52	0.07	0.00	0.15	0.01	0.16	0.04	0.01	0.05	503	0.00	0.08
Segment 3-Valley-Tunnel Boring/Tunneling	9/1/2031	8/31/2032	6	314	20	2031	Haul	80	160	20.0	0.21	11.53	2.26	0.10	2.93	0.18	3.11	0.79	0.18	0.96	10199	0.01	1.61
Segment 3-Valley-TBM Retrieval/Tunnel Prep	9/1/2032	2/28/2033	6	155	20	2032	Haul	1	2	20.0	0.00	0.14	0.03	0.00	0.04	0.00	0.04	0.01	0.00	0.01	126	0.00	0.02
Segment 3-Valley-Annular Grouting	9/1/2031	8/31/2032	6	314	20	2031	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Invert Construction	4/1/2034	5/31/2035	6	365	20	2034	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	2032	Haul	1	2	20.0	0.00	0.14	0.03	0.00	0.04	0.00	0.04	0.01	0.00	0.01	126	0.00	0.02
Segment 3-Valley-Rail and Plinth	8/1/2034	9/30/2035	6	365	20	2034	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Haul	2	4	20.0	0.01	0.28	0.06	0.00	0.07	0.00	0.08	0.02	0.00	0.02	243	0.00	0.04
Mid Mountain Shaft-Site Preparation/Demolition	11/1/2031	12/31/2031	6	52	10	2031	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	2031	Haul	120	240	20.0	0.31	17.29	3.39	0.14	4.39	0.28	4.67	1.18	0.26	1.45	15299	0.01	2.41
Mid Mountain Shaft-Drainage/Utilities	11/1/2031	12/31/2031	6	52	10	2031	Haul	10	20	20.0	0.03	1.44	0.28	0.01	0.37	0.02	0.39	0.10	0.02	0.12	1275	0.00	0.20
Mid Mountain Shaft-Shaft Drilling	1/1/2032	12/31/2032	6	314	10	2032	Haul	10	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Shaft Lining	1/1/2032	12/31/2032	6	314	10	2032	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Cavern and Adit	1/1/2033	12/31/2033	6	313	10	2033	Haul	10	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	1	2	20.0	0.00	0.15	0.03	0.00	0.04	0.00	0.04	0.01	0.00	0.01	131	0.00	0.02
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	2	20.0	0.00	0.15	0.03	0.00	0.04	0.00	0.04	0.01	0.00	0.01	131	0.00	0.02
Van Nuys Metrolink Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	2	20.0	0.00	0.15	0.03	0.00	0.04	0.00	0.04	0.01	0.00	0.01	131	0.00	0.02
Van Nuys Metrolink Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	2	20.0	0.00	0.15	0.03	0.00	0.04	0.00	0.04	0.01	0.00	0.01	131	0.00	0.02
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Haul	2	4	20.0	0.01	0.30	0.06	0.00	0.07	0.00	0.08	0.02	0.00	0.02	262	0.00	0.04
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Haul	92	184	20.0	0.24	13.41	2.61	0.11	3.36	0.21	3.57	0.90	0.20	1.11	11895	0.01	1.87
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Haul	6	12	20.0	0.02	0.85	0.17	0.01	0.22	0.01	0.23	0.06	0.01	0.07	746	0.00	0.12
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	2	4	20.0	0.01	0.27	0.06	0.00	0.07	0.00	0.08	0.02	0.00	0.02	241	0.00	0.04
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Haul	1	2	20.0	0.00	0.14	0.03	0.00	0.04	0.00	0.04	0.01	0.00	0.01	122	0.00	0.02
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	1	2	20.0	0.00	0.15	0.03	0.00	0.04	0.00	0.04	0.01	0.00	0.01	131	0.00	0.02
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	2	20.0	0.00	0.15	0.03	0.00	0.04	0.00	0.04	0.01	0.00	0.01	131	0.00	0.02
Metro G Line Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	2	20.0	0.00	0.15	0.03	0.00	0.04	0.00	0.04	0.01	0.00	0.01	131	0.00	0.02
Metro G Line Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	2	20.0	0.00	0.15	0.03	0.00	0.04	0.00	0.04	0.01	0.00	0.01	131	0.00	0.02
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Haul	2	4	20.0	0.01	0.30	0.06	0.00	0.07	0.00	0.08	0.02	0.00	0.02	262	0.00	0.04
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Haul	116	232	20.0	0.30	16.91	3.29	0.14	4.24	0.27	4.51	1.14	0.26	1.40	14998	0.01	2.36
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Haul	6	12	20.0	0.02	0.85	0.17	0.01	0.22	0.01	0.23	0.06	0.01	0.07	746	0.00	0.12
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	2	4	20.0	0.01	0.27	0.06	0.00	0.07	0.00	0.08	0.02	0.00	0.02	241	0.00	0.04
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Haul	1	2	20.0	0.00	0.14	0.03	0.00	0.04	0.00	0.04	0.01	0.00	0.01	122	0.00	0.02
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	1	2	20.0	0.00	0.15	0.03	0.00	0.04	0.00	0.04	0.01	0.00	0.01	131	0.00	0.02
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	2	20.0	0.00	0.15	0.03	0.00	0.04	0.00	0.04	0.01	0.00	0.01	131	0.00	0.02
Ventura Blvd Station-Grading	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	2	20.0	0.00	0.15	0.03	0.00	0.04	0.00	0.04	0.01	0.00	0.01	131	0.00	0.02
Ventura Blvd Station-Drainage	4/1/2029	6/30/2030	6	390	10	2029	Haul	1	2	20.0	0.00	0.15	0.03	0.00	0.04	0.00	0.04	0.01	0.00	0.01	131	0.00	0.02
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	2030	Haul	2	4	20.0	0.01	0.29	0.06	0.00	0.07	0.00	0.08	0.02	0.00	0.02	259	0.00	0.04
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	2031	Haul	92	184	20.0	0.24	13.26	2.60	0.11	3.37	0.21	3.58	0.91	0.20	1.11	11729	0.01	1.85
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Haul	6	12	20.0	0.02	0.85	0.17	0.01	0.22	0.01	0.23	0.06	0.01	0.07	746	0.00	0.12
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	2036	Haul	2	4	20.0	0.01	0.27	0.06	0.00	0.07	0.00	0.08	0.02	0.00	0.02	241	0.00	0.04
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Haul	1	2	20.0	0.00	0.14	0.03	0.00	0.04	0.00	0.04	0.01	0.00	0.01	122	0.00	0.02

Sepulveda Transit Corridor Project - ALTERNATIVE 6

SOIL/MATERIAL HAUL TRUCKS (OFFSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Total Emissions (tons)										Total Emissions (metric tons)			
											ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Segment 1-Westside-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Haul	2	4	40.0	0.00	0.03	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	24	0.00	0.00	25
Segment 1-Westside-Tunnel Boring/Tunneling	9/1/2031	10/31/2032	6	366	20	2031	Haul	80	160	20.0	0.04	2.11	0.41	0.02	0.54	0.03	0.57	0.14	0.03	0.18	1693	0.00	0.27	1773
Segment 1-Westside-TBM Retrieval/Tunnel Prep	11/1/2032	4/30/2033	6	156	20	2032	Haul	1	2	20.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9	0.00	0.00	9
Segment 1-Westside-Annular Grouting	9/1/2031	10/31/2032	6	366	20	2031	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Invert Construction	4/1/2034	7/31/2034	6	104	20	2034	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	2033	Haul	1	2	20.0	0.00	0.02	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	18	0.00	0.00	18
Segment 1-Westside-Rail and Plinth	8/1/2034	1/31/2035	6	158	20	2034	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Haul	2	4	20.0	0.00	0.04	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	35	0.00	0.01	36
Segment 2-Mountain-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Haul	2	4	40.0	0.00	0.03	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	24	0.00	0.00	25
Segment 2-Mountain-Tunnel Boring/Tunneling	9/1/2031	1/31/2034	6	758	20	2031	Haul	70	140	20.0	0.07	3.82	0.75	0.03	0.97	0.06	1.03	0.26	0.06	0.32	3068	0.00	0.48	3213
Segment 2-Mountain-TBM Retrieval/Tunnel Prep	2/1/2034	7/31/2034	6	155	20	2034	Haul	1	2	20.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9	0.00	0.00	9
Segment 2-Mountain-Annular Grouting	9/1/2031	1/31/2034	6	758	20	2031	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Invert Construction	5/1/2035	2/28/2037	6	575	20	2035	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	2034	Haul	1	2	20.0	0.00	0.05	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	42	0.00	0.01	44
Segment 2-Mountain-Rail and Plinth	4/1/2036	3/31/2037	6	313	20	2036	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	2036	Haul	2	4	20.0	0.00	0.04	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	34	0.00	0.01	36
Segment 3-Valley-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Haul	2	4	40.0	0.00	0.03	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	24	0.00	0.00	25
Segment 3-Valley-Tunnel Boring/Tunneling	9/1/2031	8/31/2032	6	314	20	2031	Haul	80	160	20.0	0.03	1.81	0.36	0.02	0.46	0.03	0.49	0.12	0.03	0.15	1453	0.00	0.23	1521
Segment 3-Valley-TBM Retrieval/Tunnel Prep	9/1/2032	2/28/2033	6	155	20	2032	Haul	1	2	20.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9	0.00	0.00	9
Segment 3-Valley-Annular Grouting	9/1/2031	8/31/2032	6	314	20	2031	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Invert Construction	4/1/2034	5/31/2035	6	365	20	2034	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	2032	Haul	1	2	20.0	0.00	0.04	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	28	0.00	0.00	30
Segment 3-Valley-Rail and Plinth	8/1/2034	9/30/2035	6	365	20	2034	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Haul	2	4	20.0	0.00	0.04	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	35	0.00	0.01	36
Mid Mountain Shaft-Site Preparation/Demolition	11/1/2031	12/31/2031	6	52	10	2031	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	2031	Haul	120	240	20.0	0.02	1.37	0.27	0.01	0.35	0.02	0.37	0.09	0.02	0.11	1096	0.00	0.17	1148
Mid Mountain Shaft-Drainage/Utilities	11/1/2031	12/31/2031	6	52	10	2031	Haul	10	20	20.0	0.00	0.04	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	30	0.00	0.00	31
Mid Mountain Shaft-Shaft Drilling	1/1/2032	12/31/2032	6	314	10	2032	Haul	10	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Shaft Lining	1/1/2032	12/31/2032	6	314	10	2032	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Cavern and Adit	1/1/2033	12/31/2033	6	313	10	2033	Haul	10	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	1	2	20.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9	0.00	0.00	10
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	2	20.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5	0.00	0.00	5
Van Nuys Metrolink Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	2	20.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5	0.00	0.00	5
Van Nuys Metrolink Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	2	20.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6	0.00	0.00	6
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Haul	2	4	20.0	0.00	0.02	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	19	0.00	0.00	19
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Haul	92	184	20.0	0.03	1.58	0.31	0.01	0.40	0.03	0.42	0.11	0.02	0.13	1273	0.00	0.20	1333
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Haul	6	12	20.0	0.01	0.41	0.08	0.00	0.11	0.01	0.11	0.03	0.01	0.03	326	0.00	0.05	342
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	2	4	20.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11	0.00	0.00	12
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Haul	1	2	20.0	0.00	0.02	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	17	0.00	0.00	18
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	1	2	20.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9	0.00	0.00	10
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	2	20.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5	0.00	0.00	5
Metro G Line Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	2	20.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5	0.00	0.00	5
Metro G Line Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	2	20.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6	0.00	0.00	6
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Haul	2	4	20.0	0.00	0.02	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	19	0.00	0.00	19
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Haul	116	232	20.0	0.04	2.00	0.39	0.02	0.50	0.03	0.53	0.13	0.03	0.16	1606	0.00	0.25	1681
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Haul	6	12	20.0	0.01	0.40	0.08	0.00	0.10	0.01	0.11	0.03	0.01	0.03	318	0.00	0.05	333
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	2	4	20.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11	0.00	0.00	12
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Haul	1	2	20.0	0.00	0.02	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	17	0.00	0.00	18
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	1	2	20.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9	0.00	0.00	10
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	2	20.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6	0.00	0.00	6
Ventura Blvd Station-Grading	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	2	20.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6	0.00	0.00	6
Ventura Blvd Station-Drainage	4/1/2029	6/30/2030	6	390	10	2029	Haul	1	2	20.0	0.00	0.03	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	23	0.00	0.00	24
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	2030	Haul	2	4	20.0	0.00	0.02	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	19	0.00	0.00	19
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	2031	Haul	92	184	20.0	0.03	1.55	0.30	0.01	0.39	0.02	0.42	0.11	0.02	0.13	1245	0.00	0.20	1303
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Haul	6	12	20.0	0.01	0.40	0.08	0.00	0.10	0.01	0.11	0.03	0.01	0.03	318	0.00	0.05	333
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	2036	Haul	2	4	20.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11	0.00	0.00	12
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Haul	1	2	20.0	0.00	0.02	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	17	0.00	0.00	18

Sepulveda Transit Corridor Project - ALTERNATIVE 6

SOIL/MATERIAL HAUL TRUCKS (OFFSITE)

											Running Emission Factor (g/mile)[1,2]													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Haul	1	2	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	2029	Haul	1	2	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
UCLA Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	2	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
UCLA Station-Drainage	4/1/2029	12/31/2029	6	235	10	2029	Haul	1	2	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Haul	2	4	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	2030	Haul	103	206	20.0	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	2034	Haul	6	12	20.0	0.01	1.27	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1356.7	0.00	0.21
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	2036	Haul	2	4	20.0	0.01	1.24	0.04	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1327.5	0.00	0.21
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	2036	Haul	1	2	20.0	0.01	1.24	0.04	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1327.5	0.00	0.21
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	1	2	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	2	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Wilshire Blvd (Metro D Line) Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	2	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Wilshire Blvd (Metro D Line) Station-Drainage	4/1/2029	3/31/2030	6	312	10	2029	Haul	1	2	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	2029	Haul	2	4	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	2030	Haul	56	112	20.0	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Haul	6	12	20.0	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	2	4	20.0	0.01	1.24	0.04	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1327.5	0.00	0.21
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Haul	1	2	20.0	0.01	1.25	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1342.3	0.00	0.21
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	1	2	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	2029	Haul	1	2	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Santa Monica Blvd Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	2	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Santa Monica Blvd Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	2	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Haul	2	4	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Haul	105	210	20.0	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Haul	6	12	20.0	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	2	4	20.0	0.01	1.24	0.04	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1327.5	0.00	0.21
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Haul	1	2	20.0	0.01	1.25	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1342.3	0.00	0.21
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	1	2	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	2	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Metro E Line (Expo)/Bundy Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	2	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Metro E Line (Expo)/Bundy Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	2	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	2029	Haul	2	4	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Haul	149	298	20.0	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Haul	6	12	20.0	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	2	4	20.0	0.01	1.24	0.04	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1327.5	0.00	0.21
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Haul	1	2	20.0	0.01	1.25	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1342.3	0.00	0.21
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Haul	1	2	20.0	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Vanowen St/Van Nuys Blvd TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Haul	-	-	-	0.01	1.25	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1342.3	0.00	0.21
Vanowen St/Van Nuys Blvd TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Haul	-	-	-	0.01	1.24	0.04	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1327.5	0.00	0.21
Magnolia TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Haul	1	2	20.0	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Magnolia TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Haul	-	-	-	0.01	1.25	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1342.3	0.00	0.21
Magnolia TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Haul	-	-	-	0.01	1.24	0.04	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1327.5	0.00	0.21
Mid Mountain Shaft TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Haul	1	2	20.0	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Mid Mountain Shaft TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Haul	-	-	-	0.01	1.25	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1342.3	0.00	0.21
Mid Mountain Shaft TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Haul	-	-	-	0.01	1.24	0.04	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1327.5	0.00	0.21
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
OMSF-Grading	2/1/2033	7/31/2033	5	129	8	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Haul	-	-	-	0.01	1.27	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1356.7	0.00	0.21
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
OMSF-Drainage/Utilties	5/1/2033	10/31/2033	5	131	8	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	2030	Haul	28	56	20.0	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate Speeds; **Fleet Mix:100%** HHDT); **Fuel Type:** Diesel
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 6

SOIL/MATERIAL HAUL TRUCKS (OFFSITE)

											Non-Running Emission Factor (g/trip)[1,3]													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Haul	1	2	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	2029	Haul	1	2	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
UCLA Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	2	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
UCLA Station-Drainage	4/1/2029	12/31/2029	6	235	10	2029	Haul	1	2	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Haul	2	4	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	2030	Haul	103	206	20.0	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	2034	Haul	6	12	20.0	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	2036	Haul	2	4	20.0	0.37	6.31	5.54	0.007	-	0.002	0.002	-	0.002	0.002	730.1	0.02	0.12
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	2036	Haul	1	2	20.0	0.37	6.31	5.54	0.007	-	0.002	0.002	-	0.002	0.002	730.1	0.02	0.12
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	1	2	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	2	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Wilshire Blvd (Metro D Line) Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	2	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Wilshire Blvd (Metro D Line) Station-Drainage	4/1/2029	3/31/2030	6	312	10	2029	Haul	1	2	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	2029	Haul	2	4	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	2030	Haul	56	112	20.0	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Haul	6	12	20.0	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	2	4	20.0	0.37	6.31	5.54	0.007	-	0.002	0.002	-	0.002	0.002	730.1	0.02	0.12
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Haul	1	2	20.0	0.37	6.33	5.50	0.007	-	0.002	0.002	-	0.002	0.002	731.2	0.02	0.12
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	1	2	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	2029	Haul	1	2	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Santa Monica Blvd Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	2	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Santa Monica Blvd Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	2	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Haul	2	4	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Haul	105	210	20.0	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Haul	6	12	20.0	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	2	4	20.0	0.37	6.31	5.54	0.007	-	0.002	0.002	-	0.002	0.002	730.1	0.02	0.12
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Haul	1	2	20.0	0.37	6.33	5.50	0.007	-	0.002	0.002	-	0.002	0.002	731.2	0.02	0.12
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	1	2	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	2	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Metro E Line (Expo)/Bundy Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	2	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Metro E Line (Expo)/Bundy Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	2	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	2029	Haul	2	4	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Haul	149	298	20.0	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Haul	6	12	20.0	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	2	4	20.0	0.37	6.31	5.54	0.007	-	0.002	0.002	-	0.002	0.002	730.1	0.02	0.12
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Haul	1	2	20.0	0.37	6.33	5.50	0.007	-	0.002	0.002	-	0.002	0.002	731.2	0.02	0.12
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Haul	1	2	20.0	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Vanowen St/Van Nuys Blvd TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Haul	-	-	-	0.37	6.33	5.50	0.007	-	0.002	0.002	-	0.002	0.002	731.2	0.02	0.12
Vanowen St/Van Nuys Blvd TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Haul	-	-	-	0.37	6.31	5.54	0.007	-	0.002	0.002	-	0.002	0.002	730.1	0.02	0.12
Magnolia TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Haul	1	2	20.0	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Magnolia TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Haul	-	-	-	0.37	6.33	5.50	0.007	-	0.002	0.002	-	0.002	0.002	731.2	0.02	0.12
Magnolia TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Haul	-	-	-	0.37	6.31	5.54	0.007	-	0.002	0.002	-	0.002	0.002	730.1	0.02	0.12
Mid Mountain Shaft TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Haul	1	2	20.0	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Mid Mountain Shaft TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Haul	-	-	-	0.37	6.33	5.50	0.007	-	0.002	0.002	-	0.002	0.002	731.2	0.02	0.12
Mid Mountain Shaft TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Haul	-	-	-	0.37	6.31	5.54	0.007	-	0.002	0.002	-	0.002	0.002	730.1	0.02	0.12
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	2033	Haul	-	-	-	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
OMSF-Grading	2/1/2033	7/31/2033	5	129	8	2033	Haul	-	-	-	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Haul	-	-	-	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	2033	Haul	-	-	-	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
OMSF-Drainage/Utilties	5/1/2033	10/31/2033	5	131	8	2033	Haul	-	-	-	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	2030	Haul	28	56	20.0	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate Speeds; **Fleet Mix:100%** HHDT); **Fuel Type:** Diesel
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 6

SOIL/MATERIAL HAUL TRUCKS (OFFSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Daily Emissions (lb/day)													
											ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Haul	1	2	20.0	0.00	0.15	0.03	0.00	0.04	0.00	0.04	0.01	0.00	0.01	131	0.00	0.02
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	2029	Haul	1	2	20.0	0.00	0.15	0.03	0.00	0.04	0.00	0.04	0.01	0.00	0.01	131	0.00	0.02
UCLA Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	2	20.0	0.00	0.15	0.03	0.00	0.04	0.00	0.04	0.01	0.00	0.01	131	0.00	0.02
UCLA Station-Drainage	4/1/2029	12/31/2029	6	235	10	2029	Haul	1	2	20.0	0.00	0.15	0.03	0.00	0.04	0.00	0.04	0.01	0.00	0.01	131	0.00	0.02
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Haul	2	4	20.0	0.01	0.30	0.06	0.00	0.07	0.00	0.08	0.02	0.00	0.02	262	0.00	0.04
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	2030	Haul	103	206	20.0	0.27	15.02	2.92	0.13	3.76	0.24	4.00	1.01	0.23	1.24	13317	0.01	2.10
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	2034	Haul	6	12	20.0	0.02	0.84	0.17	0.01	0.22	0.01	0.23	0.06	0.01	0.07	737	0.00	0.12
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	2036	Haul	2	4	20.0	0.01	0.27	0.06	0.00	0.07	0.00	0.08	0.02	0.00	0.02	241	0.00	0.04
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	2036	Haul	1	2	20.0	0.00	0.14	0.03	0.00	0.04	0.00	0.04	0.01	0.00	0.01	120	0.00	0.02
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	1	2	20.0	0.00	0.15	0.03	0.00	0.04	0.00	0.04	0.01	0.00	0.01	131	0.00	0.02
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	2	20.0	0.00	0.15	0.03	0.00	0.04	0.00	0.04	0.01	0.00	0.01	131	0.00	0.02
Wilshire Blvd (Metro D Line) Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	2	20.0	0.00	0.15	0.03	0.00	0.04	0.00	0.04	0.01	0.00	0.01	131	0.00	0.02
Wilshire Blvd (Metro D Line) Station-Drainage	4/1/2029	3/31/2030	6	312	10	2029	Haul	1	2	20.0	0.00	0.15	0.03	0.00	0.04	0.00	0.04	0.01	0.00	0.01	131	0.00	0.02
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	2029	Haul	2	4	20.0	0.01	0.30	0.06	0.00	0.07	0.00	0.08	0.02	0.00	0.02	262	0.00	0.04
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	2030	Haul	56	112	20.0	0.14	8.16	1.59	0.07	2.05	0.13	2.18	0.55	0.12	0.67	7240	0.01	1.14
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Haul	6	12	20.0	0.02	0.85	0.17	0.01	0.22	0.01	0.23	0.06	0.01	0.07	746	0.00	0.12
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	2	4	20.0	0.01	0.27	0.06	0.00	0.07	0.00	0.08	0.02	0.00	0.02	241	0.00	0.04
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Haul	1	2	20.0	0.00	0.14	0.03	0.00	0.04	0.00	0.04	0.01	0.00	0.01	122	0.00	0.02
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	1	2	20.0	0.00	0.15	0.03	0.00	0.04	0.00	0.04	0.01	0.00	0.01	131	0.00	0.02
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	2029	Haul	1	2	20.0	0.00	0.15	0.03	0.00	0.04	0.00	0.04	0.01	0.00	0.01	131	0.00	0.02
Santa Monica Blvd Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	2	20.0	0.00	0.15	0.03	0.00	0.04	0.00	0.04	0.01	0.00	0.01	131	0.00	0.02
Santa Monica Blvd Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	2	20.0	0.00	0.15	0.03	0.00	0.04	0.00	0.04	0.01	0.00	0.01	131	0.00	0.02
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Haul	2	4	20.0	0.01	0.30	0.06	0.00	0.07	0.00	0.08	0.02	0.00	0.02	262	0.00	0.04
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Haul	105	210	20.0	0.27	15.31	2.97	0.13	3.84	0.24	4.08	1.03	0.23	1.26	13576	0.01	2.14
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Haul	6	12	20.0	0.02	0.85	0.17	0.01	0.22	0.01	0.23	0.06	0.01	0.07	746	0.00	0.12
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	2	4	20.0	0.01	0.27	0.06	0.00	0.07	0.00	0.08	0.02	0.00	0.02	241	0.00	0.04
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Haul	1	2	20.0	0.00	0.14	0.03	0.00	0.04	0.00	0.04	0.01	0.00	0.01	122	0.00	0.02
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	1	2	20.0	0.00	0.15	0.03	0.00	0.04	0.00	0.04	0.01	0.00	0.01	131	0.00	0.02
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	2	20.0	0.00	0.15	0.03	0.00	0.04	0.00	0.04	0.01	0.00	0.01	131	0.00	0.02
Metro E Line (Expo)/Bundy Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	2	20.0	0.00	0.15	0.03	0.00	0.04	0.00	0.04	0.01	0.00	0.01	131	0.00	0.02
Metro E Line (Expo)/Bundy Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	2	20.0	0.00	0.15	0.03	0.00	0.04	0.00	0.04	0.01	0.00	0.01	131	0.00	0.02
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	2029	Haul	2	4	20.0	0.01	0.30	0.06	0.00	0.07	0.00	0.08	0.02	0.00	0.02	262	0.00	0.04
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Haul	149	298	20.0	0.39	21.72	4.22	0.18	5.45	0.34	5.79	1.46	0.33	1.79	19265	0.02	3.04
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Haul	6	12	20.0	0.02	0.85	0.17	0.01	0.22	0.01	0.23	0.06	0.01	0.07	746	0.00	0.12
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	2	4	20.0	0.01	0.27	0.06	0.00	0.07	0.00	0.08	0.02	0.00	0.02	241	0.00	0.04
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Haul	1	2	20.0	0.00	0.14	0.03	0.00	0.04	0.00	0.04	0.01	0.00	0.01	122	0.00	0.02
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Haul	1	2	20.0	0.00	0.14	0.03	0.00	0.04	0.00	0.04	0.01	0.00	0.01	127	0.00	0.02
Vanowen St/Van Nuys Blvd TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanowen St/Van Nuys Blvd TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnolia TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Haul	1	2	20.0	0.00	0.14	0.03	0.00	0.04	0.00	0.04	0.01	0.00	0.01	127	0.00	0.02
Magnolia TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnolia TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Haul	1	2	20.0	0.00	0.14	0.03	0.00	0.04	0.00	0.04	0.01	0.00	0.01	127	0.00	0.02
Mid Mountain Shaft TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Grading	2/1/2033	7/31/2033	5	129	8	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Drainage/Utilties	5/1/2033	10/31/2033	5	131	8	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	2030	Haul	28	56	20.0	0.07	4.08	0.79	0.03	1.02	0.06	1.09	0.28	0.06	0.34	3620	0.00	0.57

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate Speeds; **Fleet Mix:100%** HHDT); **Fuel Type:** Diesel
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 6

SOIL/MATERIAL HAUL TRUCKS (OFFSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Total Emissions (tons)										Total Emissions (metric tons)			
											ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Haul	1	2	20.0	0.00	0.03	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	28	0.00	0.00	29
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	2029	Haul	1	2	20.0	0.00	0.03	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	28	0.00	0.00	29
UCLA Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	2	20.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5	0.00	0.00	5
UCLA Station-Drainage	4/1/2029	12/31/2029	6	235	10	2029	Haul	1	2	20.0	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14	0.00	0.00	15
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Haul	2	4	20.0	0.00	0.02	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	19	0.00	0.00	19
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	2030	Haul	103	206	20.0	0.04	2.35	0.46	0.02	0.59	0.04	0.63	0.16	0.04	0.19	1891	0.00	0.30	1980
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	2034	Haul	6	12	20.0	0.01	0.39	0.08	0.00	0.10	0.01	0.11	0.03	0.01	0.03	314	0.00	0.05	329
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	2036	Haul	2	4	20.0	0.00	0.02	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	17	0.00	0.00	18
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	2036	Haul	1	2	20.0	0.00	0.02	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	17	0.00	0.00	18
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	1	2	20.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9	0.00	0.00	10
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	2	20.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5	0.00	0.00	5
Wilshire Blvd (Metro D Line) Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	2	20.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5	0.00	0.00	5
Wilshire Blvd (Metro D Line) Station-Drainage	4/1/2029	3/31/2030	6	312	10	2029	Haul	1	2	20.0	0.00	0.02	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	19	0.00	0.00	19
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	2029	Haul	2	4	20.0	0.00	0.03	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	25	0.00	0.00	26
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	2030	Haul	56	112	20.0	0.03	1.60	0.31	0.01	0.40	0.03	0.43	0.11	0.02	0.13	1284	0.00	0.20	1344
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Haul	6	12	20.0	0.01	0.40	0.08	0.00	0.10	0.01	0.11	0.03	0.01	0.03	318	0.00	0.05	333
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	2	4	20.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11	0.00	0.00	12
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Haul	1	2	20.0	0.00	0.02	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	17	0.00	0.00	18
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	1	2	20.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9	0.00	0.00	10
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	2029	Haul	1	2	20.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9	0.00	0.00	10
Santa Monica Blvd Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	2	20.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5	0.00	0.00	5
Santa Monica Blvd Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	2	20.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6	0.00	0.00	6
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Haul	2	4	20.0	0.00	0.02	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	19	0.00	0.00	19
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Haul	105	210	20.0	0.03	1.81	0.35	0.02	0.45	0.03	0.48	0.12	0.03	0.15	1453	0.00	0.23	1522
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Haul	6	12	20.0	0.01	0.40	0.08	0.00	0.10	0.01	0.11	0.03	0.01	0.03	318	0.00	0.05	333
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	2	4	20.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11	0.00	0.00	12
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Haul	1	2	20.0	0.00	0.02	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	17	0.00	0.00	18
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	1	2	20.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9	0.00	0.00	10
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	2	20.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5	0.00	0.00	5
Metro E Line (Expo)/Bundy Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	1	2	20.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5	0.00	0.00	5
Metro E Line (Expo)/Bundy Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	2	20.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6	0.00	0.00	6
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	2029	Haul	2	4	20.0	0.00	0.05	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37	0.00	0.01	39
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Haul	149	298	20.0	0.05	2.56	0.50	0.02	0.64	0.04	0.68	0.17	0.04	0.21	2062	0.00	0.32	2159
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Haul	6	12	20.0	0.01	0.41	0.08	0.00	0.11	0.01	0.11	0.03	0.01	0.03	326	0.00	0.05	342
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	2	4	20.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11	0.00	0.00	12
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Haul	1	2	20.0	0.00	0.02	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	17	0.00	0.00	18
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Haul	1	2	20.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2	0.00	0.00	3
Vanowen St/Van Nuys Blvd TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanowen St/Van Nuys Blvd TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnolia TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Haul	1	2	20.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2	0.00	0.00	3
Magnolia TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnolia TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Haul	1	2	20.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2	0.00	0.00	3
Mid Mountain Shaft TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Grading	2/1/2033	7/31/2033	5	129	8	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Drainage/Utilties	5/1/2033	10/31/2033	5	131	8	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	2030	Haul	28	56	20.0	0.05	2.56	0.50	0.02	0.64	0.04	0.68	0.17	0.04	0.21	2058	0.00	0.32	2154

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate Speeds; **Fleet Mix:100%** HHDT); **Fuel Type:** Diesel
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 6

PRECAST HAUL TRUCKS (ONSITE)

											Running Emission Factor (g/mile)[1,2,4]													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Westside-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	0.1	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Segment 1-Westside-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	0.1	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Segment 1-Westside-Tunnel Boring/Tunneling	9/1/2031	10/31/2032	6	366	20	2031	Haul	25	25	0.1	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Segment 1-Westside-TBM Retrieval/Tunnel Prep	11/1/2032	4/30/2033	6	156	20	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Segment 1-Westside-Annular Grouting	9/1/2031	10/31/2032	6	366	20	2031	Haul	-	-	0.1	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Segment 1-Westside-Invert Construction	4/1/2034	7/31/2034	6	104	20	2034	Haul	-	-	0.1	0.03	4.53	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1854.7	0.00	0.29
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Segment 1-Westside-Rail and Plinth	8/1/2034	1/31/2035	6	158	20	2034	Haul	-	-	0.1	0.03	4.53	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1854.7	0.00	0.29
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Haul	-	-	0.1	0.03	4.51	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1831.9	0.00	0.29
Segment 2-Mountain-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	0.1	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Segment 2-Mountain-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	0.1	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Segment 2-Mountain-Tunnel Boring/Tunneling	9/1/2031	1/31/2034	6	758	20	2031	Haul	24	24	0.1	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Segment 2-Mountain-TBM Retrieval/Tunnel Prep	2/1/2034	7/31/2034	6	155	20	2034	Haul	-	-	0.1	0.03	4.53	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1854.7	0.00	0.29
Segment 2-Mountain-Annular Grouting	9/1/2031	1/31/2034	6	758	20	2031	Haul	-	-	0.1	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Segment 2-Mountain-Invert Construction	5/1/2035	2/28/2037	6	575	20	2035	Haul	-	-	0.1	0.03	4.51	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1831.9	0.00	0.29
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	2034	Haul	-	-	0.1	0.03	4.53	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1854.7	0.00	0.29
Segment 2-Mountain-Rail and Plinth	4/1/2036	3/31/2037	6	313	20	2036	Haul	-	-	0.1	0.03	4.48	0.31	0.02	184.11	0.01	184.12	18.39	0.01	18.40	1810.2	0.00	0.29
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	2036	Haul	-	-	0.1	0.03	4.48	0.31	0.02	184.11	0.01	184.12	18.39	0.01	18.40	1810.2	0.00	0.29
Segment 3-Valley-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	0.1	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Segment 3-Valley-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	0.1	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Segment 3-Valley-Tunnel Boring/Tunneling	9/1/2031	8/31/2032	6	314	20	2031	Haul	38	38	0.1	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Segment 3-Valley-TBM Retrieval/Tunnel Prep	9/1/2032	2/28/2033	6	155	20	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Segment 3-Valley-Annular Grouting	9/1/2031	8/31/2032	6	314	20	2031	Haul	-	-	0.1	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Segment 3-Valley-Invert Construction	4/1/2034	5/31/2035	6	365	20	2034	Haul	-	-	0.1	0.03	4.53	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1854.7	0.00	0.29
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Segment 3-Valley-Rail and Plinth	8/1/2034	9/30/2035	6	365	20	2034	Haul	-	-	0.1	0.03	4.53	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1854.7	0.00	0.29
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Haul	-	-	0.1	0.03	4.51	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1831.9	0.00	0.29
Mid Mountain Shaft-Site Preparation/Demolition	11/1/2031	12/31/2031	6	52	10	2031	Haul	-	-	0.1	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	2031	Haul	-	-	0.1	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Mid Mountain Shaft-Drainage/Utilities	11/1/2031	12/31/2031	6	52	10	2031	Haul	-	-	0.1	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Mid Mountain Shaft-Shaft Drilling	1/1/2032	12/31/2032	6	314	10	2032	Haul	-	-	0.1	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Mid Mountain Shaft-Shaft Lining	1/1/2032	12/31/2032	6	314	10	2032	Haul	2	2	0.1	0.03	4.58	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1908.0	0.00	0.30
Mid Mountain Shaft-Cavern and Adit	1/1/2033	12/31/2033	6	313	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Van Nuys Metrolink Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Van Nuys Metrolink Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	1	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Haul	2	2	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Haul	-	-	0.1	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	-	-	0.1	0.03	4.48	0.31	0.02	184.11	0.01	184.12	18.39	0.01	18.40	1810.2	0.00	0.29
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Haul	1	1	0.1	0.03	4.51	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1831.9	0.00	0.29
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Metro G Line Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Metro G Line Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	1	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Haul	2	2	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Haul	-	-	0.1	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	-	-	0.1	0.03	4.48	0.31	0.02	184.11	0.01	184.12	18.39	0.01	18.40	1810.2	0.00	0.29
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Haul	1	1	0.1	0.03	4.51	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1831.9	0.00	0.29
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Ventura Blvd Station-Grading	4/1/2029	7/31/2029	6	104	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Ventura Blvd Station-Drainage	4/1/2029	6/30/2030	6	390	10	2029	Haul	1	1	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	2030	Haul	2	2	0.1	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	2031	Haul	-	-	0.1	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	2036	Haul	-	-	0.1	0.03	4.48	0.31	0.02	184.11	0.01	184.12	18.39	0.01	18.40	1810.2	0.00	0.29
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Haul	1	1	0.1	0.03	4.51	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1831.9	0.00	0.29

Sepulveda Transit Corridor Project - ALTERNATIVE 6

PRECAST HAUL TRUCKS (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	Non-Running Emission Factor (g/trip)[1,3]													
											ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Westside-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Segment 1-Westside-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Segment 1-Westside-Tunnel Boring/Tunneling	9/1/2031	10/31/2032	6	366	20	2031	Haul	25	25	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Segment 1-Westside-TBM Retrieval/Tunnel Prep	11/1/2032	4/30/2033	6	156	20	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
Segment 1-Westside-Annular Grouting	9/1/2031	10/31/2032	6	366	20	2031	Haul	-	-	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Segment 1-Westside-Invert Construction	4/1/2034	7/31/2034	6	104	20	2034	Haul	-	-	0.1	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
Segment 1-Westside-Rail and Plinth	8/1/2034	1/31/2035	6	158	20	2034	Haul	-	-	0.1	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Haul	-	-	0.1	0.37	6.33	5.50	0.007	-	0.002	0.002	-	0.002	0.002	731.2	0.02	0.12
Segment 2-Mountain-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Segment 2-Mountain-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Segment 2-Mountain-Tunnel Boring/Tunneling	9/1/2031	1/31/2034	6	758	20	2031	Haul	24	24	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Segment 2-Mountain-TBM Retrieval/Tunnel Prep	2/1/2034	7/31/2034	6	155	20	2034	Haul	-	-	0.1	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
Segment 2-Mountain-Annular Grouting	9/1/2031	1/31/2034	6	758	20	2031	Haul	-	-	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Segment 2-Mountain-Invert Construction	5/1/2035	2/28/2037	6	575	20	2035	Haul	-	-	0.1	0.37	6.33	5.50	0.007	-	0.002	0.002	-	0.002	0.002	731.2	0.02	0.12
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	2034	Haul	-	-	0.1	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
Segment 2-Mountain-Rail and Plinth	4/1/2036	3/31/2037	6	313	20	2036	Haul	-	-	0.1	0.37	6.31	5.54	0.007	-	0.002	0.002	-	0.002	0.002	730.1	0.02	0.12
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	2036	Haul	-	-	0.1	0.37	6.31	5.54	0.007	-	0.002	0.002	-	0.002	0.002	730.1	0.02	0.12
Segment 3-Valley-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Segment 3-Valley-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Segment 3-Valley-Tunnel Boring/Tunneling	9/1/2031	8/31/2032	6	314	20	2031	Haul	38	38	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Segment 3-Valley-TBM Retrieval/Tunnel Prep	9/1/2032	2/28/2033	6	155	20	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
Segment 3-Valley-Annular Grouting	9/1/2031	8/31/2032	6	314	20	2031	Haul	-	-	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Segment 3-Valley-Invert Construction	4/1/2034	5/31/2035	6	365	20	2034	Haul	-	-	0.1	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
Segment 3-Valley-Rail and Plinth	8/1/2034	9/30/2035	6	365	20	2034	Haul	-	-	0.1	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Haul	-	-	0.1	0.37	6.33	5.50	0.007	-	0.002	0.002	-	0.002	0.002	731.2	0.02	0.12
Mid Mountain Shaft-Site Preparation/Demolition	11/1/2031	12/31/2031	6	52	10	2031	Haul	-	-	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	2031	Haul	-	-	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Mid Mountain Shaft-Drainage/Utilities	11/1/2031	12/31/2031	6	52	10	2031	Haul	-	-	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Mid Mountain Shaft-Shaft Drilling	1/1/2032	12/31/2032	6	314	10	2032	Haul	-	-	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
Mid Mountain Shaft-Shaft Lining	1/1/2032	12/31/2032	6	314	10	2032	Haul	2	2	0.1	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
Mid Mountain Shaft-Cavern and Adit	1/1/2033	12/31/2033	6	313	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Van Nuys Metrolink Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Van Nuys Metrolink Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	1	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Haul	2	2	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Haul	-	-	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	-	-	0.1	0.37	6.31	5.54	0.007	-	0.002	0.002	-	0.002	0.002	730.1	0.02	0.12
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Haul	1	1	0.1	0.37	6.33	5.50	0.007	-	0.002	0.002	-	0.002	0.002	731.2	0.02	0.12
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Metro G Line Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Metro G Line Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	1	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Haul	2	2	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Haul	-	-	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	-	-	0.1	0.37	6.31	5.54	0.007	-	0.002	0.002	-	0.002	0.002	730.1	0.02	0.12
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Haul	1	1	0.1	0.37	6.33	5.50	0.007	-	0.002	0.002	-	0.002	0.002	731.2	0.02	0.12
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Ventura Blvd Station-Grading	4/1/2029	7/31/2029	6	104	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Ventura Blvd Station-Drainage	4/1/2029	6/30/2030	6	390	10	2029	Haul	1	1	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	2030	Haul	2	2	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	2031	Haul	-	-	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	2036	Haul	-	-	0.1	0.37	6.31	5.54	0.007	-	0.002	0.002	-	0.002	0.002	730.1	0.02	0.12
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Haul	1	1	0.1	0.37	6.33	5.50	0.007	-	0.002	0.002	-	0.002	0.002	731.2	0.02	0.12

Sepulveda Transit Corridor Project - ALTERNATIVE 6

PRECAST HAUL TRUCKS (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	Daily Emissions (lb/day)												
											ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Westside-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Tunnel Boring/Tunneling	9/1/2031	10/31/2032	6	366	20	2031	Haul	25	25	0.1	0.02	0.38	0.30	0.00	1.01	0.00	1.01	0.10	0.00	0.10	52.0	0.00	0.01
Segment 1-Westside-TBM Retrieval/Tunnel Prep	11/1/2032	4/30/2033	6	156	20	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Annular Grouting	9/1/2031	10/31/2032	6	366	20	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Invert Construction	4/1/2034	7/31/2034	6	104	20	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Rail and Plinth	8/1/2034	1/31/2035	6	158	20	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Tunnel Boring/Tunneling	9/1/2031	1/31/2034	6	758	20	2031	Haul	24	24	0.1	0.02	0.37	0.29	0.00	0.97	0.00	0.97	0.10	0.00	0.10	50.0	0.00	0.01
Segment 2-Mountain-TBM Retrieval/Tunnel Prep	2/1/2034	7/31/2034	6	155	20	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Annular Grouting	9/1/2031	1/31/2034	6	758	20	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Invert Construction	5/1/2035	2/28/2037	6	575	20	2035	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Rail and Plinth	4/1/2036	3/31/2037	6	313	20	2036	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	2036	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Tunnel Boring/Tunneling	9/1/2031	8/31/2032	6	314	20	2031	Haul	38	38	0.1	0.03	0.58	0.46	0.00	1.54	0.00	1.54	0.15	0.00	0.15	79.1	0.00	0.01
Segment 3-Valley-TBM Retrieval/Tunnel Prep	9/1/2032	2/28/2033	6	155	20	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Annular Grouting	9/1/2031	8/31/2032	6	314	20	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Invert Construction	4/1/2034	5/31/2035	6	365	20	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Rail and Plinth	8/1/2034	9/30/2035	6	365	20	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Site Preparation/Demolition	11/1/2031	12/31/2031	6	52	10	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Drainage/Utilities	11/1/2031	12/31/2031	6	52	10	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Shaft Drilling	1/1/2032	12/31/2032	6	314	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Shaft Lining	1/1/2032	12/31/2032	6	314	10	2032	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.1	0.00	0.00
Mid Mountain Shaft-Cavern and Adit	1/1/2033	12/31/2033	6	313	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	1	0.1	0.00	0.02	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	2.1	0.00	0.00
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.3	0.00	0.00
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Haul	1	1	0.1	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	2.0	0.00	0.00
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	1	0.1	0.00	0.02	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	2.1	0.00	0.00
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.3	0.00	0.00
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Haul	1	1	0.1	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	2.0	0.00	0.00
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Grading	4/1/2029	7/31/2029	6	104	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Drainage	4/1/2029	6/30/2030	6	390	10	2029	Haul	1	1	0.1	0.00	0.02	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	2.1	0.00	0.00
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	2030	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.2	0.00	0.00
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	2036	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Haul	1	1	0.1	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	2.0	0.00	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 6

PRECAST HAUL TRUCKS (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	Total Emissions (tons) ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	Total Emissions (metric tons) CO_2	CH_4	N_2O	CO_2e
Segment 1-Westside-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Tunnel Boring/Tunneling	9/1/2031	10/31/2032	6	366	20	2031	Haul	25	25	0.1	0.00	0.07	0.05	0.00	0.19	0.00	0.19	0.02	0.00	0.02	8.6	0.00	0.00	9.0
Segment 1-Westside-TBM Retrieval/Tunnel Prep	11/1/2032	4/30/2033	6	156	20	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Annular Grouting	9/1/2031	10/31/2032	6	366	20	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Invert Construction	4/1/2034	7/31/2034	6	104	20	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Rail and Plinth	8/1/2034	1/31/2035	6	158	20	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Tunnel Boring/Tunneling	9/1/2031	1/31/2034	6	758	20	2031	Haul	24	24	0.1	0.01	0.14	0.11	0.00	0.37	0.00	0.37	0.04	0.00	0.04	17.2	0.00	0.00	18.0
Segment 2-Mountain-TBM Retrieval/Tunnel Prep	2/1/2034	7/31/2034	6	155	20	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Annular Grouting	9/1/2031	1/31/2034	6	758	20	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Invert Construction	5/1/2035	2/28/2037	6	575	20	2035	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Rail and Plinth	4/1/2036	3/31/2037	6	313	20	2036	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	2036	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Tunnel Boring/Tunneling	9/1/2031	8/31/2032	6	314	20	2031	Haul	38	38	0.1	0.00	0.09	0.07	0.00	0.24	0.00	0.24	0.02	0.00	0.02	11.3	0.00	0.00	11.8
Segment 3-Valley-TBM Retrieval/Tunnel Prep	9/1/2032	2/28/2033	6	155	20	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Annular Grouting	9/1/2031	8/31/2032	6	314	20	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Invert Construction	4/1/2034	5/31/2035	6	365	20	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Rail and Plinth	8/1/2034	9/30/2035	6	365	20	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Site Preparation/Demolition	11/1/2031	12/31/2031	6	52	10	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Drainage/Utilities	11/1/2031	12/31/2031	6	52	10	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Shaft Drilling	1/1/2032	12/31/2032	6	314	10	2032	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Shaft Lining	1/1/2032	12/31/2032	6	314	10	2032	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.6	0.00	0.00	0.6
Mid Mountain Shaft-Cavern and Adit	1/1/2033	12/31/2033	6	313	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	1	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Haul	1	1	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	1	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Haul	1	1	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Grading	4/1/2029	7/31/2029	6	104	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Drainage	4/1/2029	6/30/2030	6	390	10	2029	Haul	1	1	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	2030	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	2036	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Haul	1	1	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3

Sepulveda Transit Corridor Project - ALTERNATIVE 6

PRECAST HAUL TRUCKS (ONSITE)

											Running Emission Factor (g/mile)[1,2,4]													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
UCLA Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
UCLA Station-Drainage	4/1/2029	12/31/2029	6	235	10	2029	Haul	1	1	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Haul	2	2	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	2030	Haul	-	-	0.1	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	2034	Haul	-	-	0.1	0.03	4.53	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1854.7	0.00	0.29
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	2036	Haul	-	-	0.1	0.03	4.48	0.31	0.02	184.11	0.01	184.12	18.39	0.01	18.40	1810.2	0.00	0.29
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	2036	Haul	1	1	0.1	0.03	4.48	0.31	0.02	184.11	0.01	184.12	18.39	0.01	18.40	1810.2	0.00	0.29
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Wilshire Blvd (Metro D Line) Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Wilshire Blvd (Metro D Line) Station-Drainage	4/1/2029	3/31/2030	6	312	10	2029	Haul	1	1	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	2029	Haul	2	2	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	2030	Haul	-	-	0.1	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	-	-	0.1	0.03	4.48	0.31	0.02	184.11	0.01	184.12	18.39	0.01	18.40	1810.2	0.00	0.29
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Haul	1	1	0.1	0.03	4.51	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1831.9	0.00	0.29
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Santa Monica Blvd Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Santa Monica Blvd Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	1	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Haul	2	2	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Haul	-	-	0.1	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	-	-	0.1	0.03	4.48	0.31	0.02	184.11	0.01	184.12	18.39	0.01	18.40	1810.2	0.00	0.29
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Haul	1	1	0.1	0.03	4.51	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1831.9	0.00	0.29
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Metro E Line (Expo)/Bundy Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Metro E Line (Expo)/Bundy Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	1	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	2029	Haul	2	2	0.1	0.03	4.65	0.34	0.02	184.10	0.01	184.11	18.39	0.01	18.39	2004.7	0.00	0.32
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Haul	-	-	0.1	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	-	-	0.1	0.03	4.48	0.31	0.02	184.11	0.01	184.12	18.39	0.01	18.40	1810.2	0.00	0.29
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Haul	1	1	0.1	0.03	4.51	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1831.9	0.00	0.29
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Haul	-	-	0.1	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Vanowen St/Van Nuys Blvd TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Haul	-	-	0.1	0.03	4.51	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1831.9	0.00	0.29
Vanowen St/Van Nuys Blvd TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Haul	-	-	0.1	0.03	4.48	0.31	0.02	184.11	0.01	184.12	18.39	0.01	18.40	1810.2	0.00	0.29
Magnolia TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Haul	-	-	0.1	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Magnolia TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Haul	-	-	0.1	0.03	4.51	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1831.9	0.00	0.29
Magnolia TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Haul	-	-	0.1	0.03	4.48	0.31	0.02	184.11	0.01	184.12	18.39	0.01	18.40	1810.2	0.00	0.29
Mid Mountain Shaft TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Haul	-	-	0.1	0.03	4.60	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1938.0	0.00	0.31
Mid Mountain Shaft TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Haul	-	-	0.1	0.03	4.51	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1831.9	0.00	0.29
Mid Mountain Shaft TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Haul	-	-	0.1	0.03	4.48	0.31	0.02	184.11	0.01	184.12	18.39	0.01	18.40	1810.2	0.00	0.29
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
OMSF-Grading	2/1/2033	7/31/2033	5	129	8	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Haul	-	-	0.1	0.03	4.53	0.31	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1854.7	0.00	0.29
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
OMSF-Drainage/Utilties	5/1/2033	10/31/2033	5	131	8	2033	Haul	-	-	0.1	0.03	4.56	0.32	0.02	184.11	0.01	184.11	18.39	0.01	18.39	1880.0	0.00	0.30
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	2030	Haul	-	-	0.1	0.03	4.62	0.33	0.02	184.10	0.01	184.11	18.39	0.01	18.39	1970.4	0.00	0.31

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** 100% HHDT; **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 6

PRECAST HAUL TRUCKS (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	Non-Running Emission Factor (g/trip)[1,3]													
											ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
UCLA Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
UCLA Station-Drainage	4/1/2029	12/31/2029	6	235	10	2029	Haul	1	1	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Haul	2	2	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	2030	Haul	-	-	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	2034	Haul	-	-	0.1	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	2036	Haul	-	-	0.1	0.37	6.31	5.54	0.007	-	0.002	0.002	-	0.002	0.002	730.1	0.02	0.12
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	2036	Haul	1	1	0.1	0.37	6.31	5.54	0.007	-	0.002	0.002	-	0.002	0.002	730.1	0.02	0.12
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Wilshire Blvd (Metro D Line) Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Wilshire Blvd (Metro D Line) Station-Drainage	4/1/2029	3/31/2030	6	312	10	2029	Haul	1	1	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	2029	Haul	2	2	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	2030	Haul	-	-	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	-	-	0.1	0.37	6.31	5.54	0.007	-	0.002	0.002	-	0.002	0.002	730.1	0.02	0.12
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Haul	1	1	0.1	0.37	6.33	5.50	0.007	-	0.002	0.002	-	0.002	0.002	731.2	0.02	0.12
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Santa Monica Blvd Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Santa Monica Blvd Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	1	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Haul	2	2	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Haul	-	-	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	-	-	0.1	0.37	6.31	5.54	0.007	-	0.002	0.002	-	0.002	0.002	730.1	0.02	0.12
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Haul	1	1	0.1	0.37	6.33	5.50	0.007	-	0.002	0.002	-	0.002	0.002	731.2	0.02	0.12
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Metro E Line (Expo)/Bundy Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Metro E Line (Expo)/Bundy Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	1	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	2029	Haul	2	2	0.1	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Haul	-	-	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	-	-	0.1	0.37	6.31	5.54	0.007	-	0.002	0.002	-	0.002	0.002	730.1	0.02	0.12
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Haul	1	1	0.1	0.37	6.33	5.50	0.007	-	0.002	0.002	-	0.002	0.002	731.2	0.02	0.12
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Haul	-	-	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Vanowen St/Van Nuys Blvd TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Haul	-	-	0.1	0.37	6.33	5.50	0.007	-	0.002	0.002	-	0.002	0.002	731.2	0.02	0.12
Vanowen St/Van Nuys Blvd TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Haul	-	-	0.1	0.37	6.31	5.54	0.007	-	0.002	0.002	-	0.002	0.002	730.1	0.02	0.12
Magnolia TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Haul	-	-	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Magnolia TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Haul	-	-	0.1	0.37	6.33	5.50	0.007	-	0.002	0.002	-	0.002	0.002	731.2	0.02	0.12
Magnolia TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Haul	-	-	0.1	0.37	6.31	5.54	0.007	-	0.002	0.002	-	0.002	0.002	730.1	0.02	0.12
Mid Mountain Shaft TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Haul	-	-	0.1	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Mid Mountain Shaft TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Haul	-	-	0.1	0.37	6.33	5.50	0.007	-	0.002	0.002	-	0.002	0.002	731.2	0.02	0.12
Mid Mountain Shaft TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Haul	-	-	0.1	0.37	6.31	5.54	0.007	-	0.002	0.002	-	0.002	0.002	730.1	0.02	0.12
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
OMSF-Grading	2/1/2033	7/31/2033	5	129	8	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Haul	-	-	0.1	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
OMSF-Drainage/Utilties	5/1/2033	10/31/2033	5	131	8	2033	Haul	-	-	0.1	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	2030	Haul	-	-	0.1	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** 100% HHDT; **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 6

PRECAST HAUL TRUCKS (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	Daily Emissions (lb/day)													
											ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Drainage	4/1/2029	12/31/2029	6	235	10	2029	Haul	1	1	0.1	0.00	0.02	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	2.1	0.00	0.00
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.3	0.00	0.00
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	2036	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	2036	Haul	1	1	0.1	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	2.0	0.00	0.00
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Drainage	4/1/2029	3/31/2030	6	312	10	2029	Haul	1	1	0.1	0.00	0.02	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	2.1	0.00	0.00
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	2029	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.3	0.00	0.00
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Haul	1	1	0.1	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	2.0	0.00	0.00
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	1	0.1	0.00	0.02	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	2.1	0.00	0.00
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.3	0.00	0.00
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Haul	1	1	0.1	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	2.0	0.00	0.00
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	1	0.1	0.00	0.02	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	2.1	0.00	0.00
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	2029	Haul	2	2	0.1	0.00	0.03	0.02	0.00	0.08	0.00	0.08	0.01	0.00	0.01	4.3	0.00	0.00
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Haul	1	1	0.1	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	2.0	0.00	0.00
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanowen St/Van Nuys Blvd TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanowen St/Van Nuys Blvd TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnolia TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnolia TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnolia TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Grading	2/1/2033	7/31/2033	5	129	8	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Drainage/Utilties	5/1/2033	10/31/2033	5	131	8	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** 100% HHDT; **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 6

PRECAST HAUL TRUCKS (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	Total Emissions (tons) ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	Total Emissions (metric tons) CO_2	CH_4	N_2O	CO_2e
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Drainage	4/1/2029	12/31/2029	6	235	10	2029	Haul	1	1	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.2	0.00	0.00	0.2
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	2036	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	2036	Haul	1	1	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Drainage	4/1/2029	3/31/2030	6	312	10	2029	Haul	1	1	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	2029	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Haul	1	1	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	1	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Haul	1	1	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	1	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	2029	Haul	2	2	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.6	0.00	0.00	0.6
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Haul	1	1	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanowen St/Van Nuys Blvd TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanowen St/Van Nuys Blvd TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnolia TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnolia TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnolia TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Grading	2/1/2033	7/31/2033	5	129	8	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Drainage/Utilties	5/1/2033	10/31/2033	5	131	8	2033	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	2030	Haul	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** 100% HHDT; **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 6

PRECAST HAUL TRUCKS (OFFSITE)

											Running Emission Factor (g/mile)[1,2]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Westside-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	-	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Segment 1-Westside-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	-	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Segment 1-Westside-Tunnel Boring/Tunneling	9/1/2031	10/31/2032	6	366	20	2031	Haul	25	50	20.0	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Segment 1-Westside-TBM Retrieval/Tunnel Prep	11/1/2032	4/30/2033	6	156	20	2032	Haul	-	-	-	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Segment 1-Westside-Annular Grouting	9/1/2031	10/31/2032	6	366	20	2031	Haul	-	-	-	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Segment 1-Westside-Invert Construction	4/1/2034	7/31/2034	6	104	20	2034	Haul	-	-	-	0.01	1.27	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1356.7	0.00	0.21
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Segment 1-Westside-Rail and Plinth	8/1/2034	1/31/2035	6	158	20	2034	Haul	-	-	-	0.01	1.27	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1356.7	0.00	0.21
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Haul	-	-	-	0.01	1.25	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1342.3	0.00	0.21
Segment 2-Mountain-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	-	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Segment 2-Mountain-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	-	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Segment 2-Mountain-Tunnel Boring/Tunneling	9/1/2031	1/31/2034	6	758	20	2031	Haul	24	48	20.0	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Segment 2-Mountain-TBM Retrieval/Tunnel Prep	2/1/2034	7/31/2034	6	155	20	2034	Haul	-	-	-	0.01	1.27	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1356.7	0.00	0.21
Segment 2-Mountain-Annular Grouting	9/1/2031	1/31/2034	6	758	20	2031	Haul	-	-	-	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Segment 2-Mountain-Invert Construction	5/1/2035	2/28/2037	6	575	20	2035	Haul	-	-	-	0.01	1.25	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1342.3	0.00	0.21
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	2034	Haul	-	-	-	0.01	1.27	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1356.7	0.00	0.21
Segment 2-Mountain-Rail and Plinth	4/1/2036	3/31/2037	6	313	20	2036	Haul	-	-	-	0.01	1.24	0.04	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1327.5	0.00	0.21
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	2036	Haul	-	-	-	0.01	1.24	0.04	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1327.5	0.00	0.21
Segment 3-Valley-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	-	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Segment 3-Valley-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	-	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Segment 3-Valley-Tunnel Boring/Tunneling	9/1/2031	8/31/2032	6	314	20	2031	Haul	38	76	20.0	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Segment 3-Valley-TBM Retrieval/Tunnel Prep	9/1/2032	2/28/2033	6	155	20	2032	Haul	-	-	-	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Segment 3-Valley-Annular Grouting	9/1/2031	8/31/2032	6	314	20	2031	Haul	-	-	-	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Segment 3-Valley-Invert Construction	4/1/2034	5/31/2035	6	365	20	2034	Haul	-	-	-	0.01	1.27	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1356.7	0.00	0.21
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	2032	Haul	-	-	-	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Segment 3-Valley-Rail and Plinth	8/1/2034	9/30/2035	6	365	20	2034	Haul	-	-	-	0.01	1.27	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1356.7	0.00	0.21
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Haul	-	-	-	0.01	1.25	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1342.3	0.00	0.21
Mid Mountain Shaft-Site Preparation/Demolition	11/1/2031	12/31/2031	6	52	10	2031	Haul	-	-	20.0	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	2031	Haul	-	-	20.0	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Mid Mountain Shaft-Drainage/Utilities	11/1/2031	12/31/2031	6	52	10	2031	Haul	-	-	20.0	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Mid Mountain Shaft-Shaft Drilling	1/1/2032	12/31/2032	6	314	10	2032	Haul	-	-	20.0	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Mid Mountain Shaft-Shaft Lining	1/1/2032	12/31/2032	6	314	10	2032	Haul	2	4	20.0	0.01	1.30	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1389.5	0.00	0.22
Mid Mountain Shaft-Cavern and Adit	1/1/2033	12/31/2033	6	313	10	2033	Haul	-	-	20.0	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	-	-	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Van Nuys Metrolink Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Van Nuys Metrolink Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	2	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Haul	2	4	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Haul	-	-	-	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	-	-	-	0.01	1.24	0.04	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1327.5	0.00	0.21
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Haul	1	2	20.0	0.01	1.25	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1342.3	0.00	0.21
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	-	-	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Metro G Line Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Metro G Line Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	2	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Haul	2	4	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Haul	-	-	-	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	-	-	-	0.01	1.24	0.04	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1327.5	0.00	0.21
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Haul	1	2	20.0	0.01	1.25	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1342.3	0.00	0.21
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	-	-	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	2029	Haul	-	-	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Ventura Blvd Station-Grading	4/1/2029	7/31/2029	6	104	10	2029	Haul	-	-	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Ventura Blvd Station-Drainage	4/1/2029	6/30/2030	6	390	10	2029	Haul	1	2	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	2030	Haul	2	4	20.0	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	2031	Haul	-	-	-	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	2036	Haul	-	-	-	0.01	1.24	0.04	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1327.5	0.00	0.21
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Haul	1	2	20.0	0.01	1.25	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1342.3	0.00	0.21

Sepulveda Transit Corridor Project - ALTERNATIVE 6

PRECAST HAUL TRUCKS (OFFSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Non-Running Emission Factor (g/trip)[1,3] ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Westside-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	-	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Segment 1-Westside-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	-	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Segment 1-Westside-Tunnel Boring/Tunneling	9/1/2031	10/31/2032	6	366	20	2031	Haul	25	50	20.0	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Segment 1-Westside-TBM Retrieval/Tunnel Prep	11/1/2032	4/30/2033	6	156	20	2032	Haul	-	-	-	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
Segment 1-Westside-Annular Grouting	9/1/2031	10/31/2032	6	366	20	2031	Haul	-	-	-	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Segment 1-Westside-Invert Construction	4/1/2034	7/31/2034	6	104	20	2034	Haul	-	-	-	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	2033	Haul	-	-	-	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
Segment 1-Westside-Rail and Plinth	8/1/2034	1/31/2035	6	158	20	2034	Haul	-	-	-	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Haul	-	-	-	0.37	6.33	5.50	0.007	-	0.002	0.002	-	0.002	0.002	731.2	0.02	0.12
Segment 2-Mountain-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	-	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Segment 2-Mountain-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	-	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Segment 2-Mountain-Tunnel Boring/Tunneling	9/1/2031	1/31/2034	6	758	20	2031	Haul	24	48	20.0	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Segment 2-Mountain-TBM Retrieval/Tunnel Prep	2/1/2034	7/31/2034	6	155	20	2034	Haul	-	-	-	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
Segment 2-Mountain-Annular Grouting	9/1/2031	1/31/2034	6	758	20	2031	Haul	-	-	-	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Segment 2-Mountain-Invert Construction	5/1/2035	2/28/2037	6	575	20	2035	Haul	-	-	-	0.37	6.33	5.50	0.007	-	0.002	0.002	-	0.002	0.002	731.2	0.02	0.12
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	2034	Haul	-	-	-	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
Segment 2-Mountain-Rail and Plinth	4/1/2036	3/31/2037	6	313	20	2036	Haul	-	-	-	0.37	6.31	5.54	0.007	-	0.002	0.002	-	0.002	0.002	730.1	0.02	0.12
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	2036	Haul	-	-	-	0.37	6.31	5.54	0.007	-	0.002	0.002	-	0.002	0.002	730.1	0.02	0.12
Segment 3-Valley-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	-	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Segment 3-Valley-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	-	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Segment 3-Valley-Tunnel Boring/Tunneling	9/1/2031	8/31/2032	6	314	20	2031	Haul	38	76	20.0	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Segment 3-Valley-TBM Retrieval/Tunnel Prep	9/1/2032	2/28/2033	6	155	20	2032	Haul	-	-	-	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
Segment 3-Valley-Annular Grouting	9/1/2031	8/31/2032	6	314	20	2031	Haul	-	-	-	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Segment 3-Valley-Invert Construction	4/1/2034	5/31/2035	6	365	20	2034	Haul	-	-	-	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	2032	Haul	-	-	-	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
Segment 3-Valley-Rail and Plinth	8/1/2034	9/30/2035	6	365	20	2034	Haul	-	-	-	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Haul	-	-	-	0.37	6.33	5.50	0.007	-	0.002	0.002	-	0.002	0.002	731.2	0.02	0.12
Mid Mountain Shaft-Site Preparation/Demolition	11/1/2031	12/31/2031	6	52	10	2031	Haul	-	-	20.0	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	2031	Haul	-	-	20.0	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Mid Mountain Shaft-Drainage/Utilities	11/1/2031	12/31/2031	6	52	10	2031	Haul	-	-	20.0	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Mid Mountain Shaft-Shaft Drilling	1/1/2032	12/31/2032	6	314	10	2032	Haul	-	-	20.0	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
Mid Mountain Shaft-Shaft Lining	1/1/2032	12/31/2032	6	314	10	2032	Haul	2	4	20.0	0.37	6.42	5.43	0.007	-	0.002	0.002	-	0.002	0.002	743.6	0.02	0.12
Mid Mountain Shaft-Cavern and Adit	1/1/2033	12/31/2033	6	313	10	2033	Haul	-	-	20.0	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	-	-	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Van Nuys Metrolink Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Van Nuys Metrolink Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	2	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Haul	2	4	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Haul	-	-	-	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	-	-	-	0.37	6.31	5.54	0.007	-	0.002	0.002	-	0.002	0.002	730.1	0.02	0.12
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Haul	1	2	20.0	0.37	6.33	5.50	0.007	-	0.002	0.002	-	0.002	0.002	731.2	0.02	0.12
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	-	-	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Metro G Line Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Metro G Line Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	2	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Haul	2	4	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Haul	-	-	-	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	-	-	-	0.37	6.31	5.54	0.007	-	0.002	0.002	-	0.002	0.002	730.1	0.02	0.12
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Haul	1	2	20.0	0.37	6.33	5.50	0.007	-	0.002	0.002	-	0.002	0.002	731.2	0.02	0.12
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	-	-	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	2029	Haul	-	-	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Ventura Blvd Station-Grading	4/1/2029	7/31/2029	6	104	10	2029	Haul	-	-	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Ventura Blvd Station-Drainage	4/1/2029	6/30/2030	6	390	10	2029	Haul	1	2	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	2030	Haul	2	4	20.0	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	2031	Haul	-	-	-	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	2036	Haul	-	-	-	0.37	6.31	5.54	0.007	-	0.002	0.002	-	0.002	0.002	730.1	0.02	0.12
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Haul	1	2	20.0	0.37	6.33	5.50	0.007	-	0.002	0.002	-	0.002	0.002	731.2	0.02	0.12

Sepulveda Transit Corridor Project - ALTERNATIVE 6

PRECAST HAUL TRUCKS (OFFSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Daily Emissions (lb/day)													
											ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Westside-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Tunnel Boring/Tunneling	9/1/2031	10/31/2032	6	366	20	2031	Haul	25	50	20.0	0.06	3.60	0.71	0.03	0.92	0.06	0.97	0.25	0.06	0.30	3187.3	0.00	0.50
Segment 1-Westside-TBM Retrieval/Tunnel Prep	11/1/2032	4/30/2033	6	156	20	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Annular Grouting	9/1/2031	10/31/2032	6	366	20	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Invert Construction	4/1/2034	7/31/2034	6	104	20	2034	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Rail and Plinth	8/1/2034	1/31/2035	6	158	20	2034	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Tunnel Boring/Tunneling	9/1/2031	1/31/2034	6	758	20	2031	Haul	24	48	20.0	0.06	3.46	0.68	0.03	0.88	0.06	0.93	0.24	0.05	0.29	3059.8	0.00	0.48
Segment 2-Mountain-TBM Retrieval/Tunnel Prep	2/1/2034	7/31/2034	6	155	20	2034	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Annular Grouting	9/1/2031	1/31/2034	6	758	20	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Invert Construction	5/1/2035	2/28/2037	6	575	20	2035	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	2034	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Rail and Plinth	4/1/2036	3/31/2037	6	313	20	2036	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	2036	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Tunnel Boring/Tunneling	9/1/2031	8/31/2032	6	314	20	2031	Haul	38	76	20.0	0.10	5.48	1.07	0.05	1.39	0.09	1.48	0.37	0.08	0.46	4844.7	0.00	0.76
Segment 3-Valley-TBM Retrieval/Tunnel Prep	9/1/2032	2/28/2033	6	155	20	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Annular Grouting	9/1/2031	8/31/2032	6	314	20	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Invert Construction	4/1/2034	5/31/2035	6	365	20	2034	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Rail and Plinth	8/1/2034	9/30/2035	6	365	20	2034	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Site Preparation/Demolition	11/1/2031	12/31/2031	6	52	10	2031	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	2031	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Drainage/Utilities	11/1/2031	12/31/2031	6	52	10	2031	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Shaft Drilling	1/1/2032	12/31/2032	6	314	10	2032	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Shaft Lining	1/1/2032	12/31/2032	6	314	10	2032	Haul	2	4	20.0	0.01	0.28	0.06	0.00	0.07	0.00	0.08	0.02	0.00	0.02	250.4	0.00	0.04
Mid Mountain Shaft-Cavern and Adit	1/1/2033	12/31/2033	6	313	10	2033	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	2	20.0	0.00	0.15	0.03	0.00	0.04	0.00	0.04	0.01	0.00	0.01	131.2	0.00	0.02
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Haul	2	4	20.0	0.01	0.30	0.06	0.00	0.07	0.00	0.08	0.02	0.00	0.02	262.4	0.00	0.04
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Haul	1	2	20.0	0.00	0.14	0.03	0.00	0.04	0.00	0.04	0.01	0.00	0.01	121.6	0.00	0.02
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	2	20.0	0.00	0.15	0.03	0.00	0.04	0.00	0.04	0.01	0.00	0.01	131.2	0.00	0.02
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Haul	2	4	20.0	0.01	0.30	0.06	0.00	0.07	0.00	0.08	0.02	0.00	0.02	262.4	0.00	0.04
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Haul	1	2	20.0	0.00	0.14	0.03	0.00	0.04	0.00	0.04	0.01	0.00	0.01	121.6	0.00	0.02
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	2029	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Grading	4/1/2029	7/31/2029	6	104	10	2029	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Drainage	4/1/2029	6/30/2030	6	390	10	2029	Haul	1	2	20.0	0.00	0.15	0.03	0.00	0.04	0.00	0.04	0.01	0.00	0.01	131.2	0.00	0.02
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	2030	Haul	2	4	20.0	0.01	0.29	0.06	0.00	0.07	0.00	0.08	0.02	0.00	0.02	258.6	0.00	0.04
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	2036	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Haul	1	2	20.0	0.00	0.14	0.03	0.00	0.04	0.00	0.04	0.01	0.00	0.01	121.6	0.00	0.02

Sepulveda Transit Corridor Project - ALTERNATIVE 6

PRECAST HAUL TRUCKS (OFFSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Total Emissions (tons) ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	Total Emissions (metric tons) CO_2	CH_4	N_2O	CO_2e
Segment 1-Westside-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Tunnel Boring/Tunneling	9/1/2031	10/31/2032	6	366	20	2031	Haul	25	50	20.0	0.01	0.66	0.13	0.01	0.17	0.01	0.18	0.05	0.01	0.06	529.1	0.00	0.08	554.0
Segment 1-Westside-TBM Retrieval/Tunnel Prep	11/1/2032	4/30/2033	6	156	20	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Annular Grouting	9/1/2031	10/31/2032	6	366	20	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Invert Construction	4/1/2034	7/31/2034	6	104	20	2034	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Rail and Plinth	8/1/2034	1/31/2035	6	158	20	2034	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Tunnel Boring/Tunneling	9/1/2031	1/31/2034	6	758	20	2031	Haul	24	48	20.0	0.02	1.31	0.26	0.01	0.33	0.02	0.35	0.09	0.02	0.11	1052.0	0.00	0.17	1101.4
Segment 2-Mountain-TBM Retrieval/Tunnel Prep	2/1/2034	7/31/2034	6	155	20	2034	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Annular Grouting	9/1/2031	1/31/2034	6	758	20	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Invert Construction	5/1/2035	2/28/2037	6	575	20	2035	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	2034	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Rail and Plinth	4/1/2036	3/31/2037	6	313	20	2036	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	2036	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Tunnel Boring/Tunneling	9/1/2031	8/31/2032	6	314	20	2031	Haul	38	76	20.0	0.02	0.86	0.17	0.01	0.22	0.01	0.23	0.06	0.01	0.07	690.0	0.00	0.11	722.4
Segment 3-Valley-TBM Retrieval/Tunnel Prep	9/1/2032	2/28/2033	6	155	20	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Annular Grouting	9/1/2031	8/31/2032	6	314	20	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Invert Construction	4/1/2034	5/31/2035	6	365	20	2034	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	2032	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Rail and Plinth	8/1/2034	9/30/2035	6	365	20	2034	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Site Preparation/Demolition	11/1/2031	12/31/2031	6	52	10	2031	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	2031	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Drainage/Utilities	11/1/2031	12/31/2031	6	52	10	2031	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Shaft Drilling	1/1/2032	12/31/2032	6	314	10	2032	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Shaft Lining	1/1/2032	12/31/2032	6	314	10	2032	Haul	2	4	20.0	0.00	0.04	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	35.7	0.00	0.01	37.3
Mid Mountain Shaft-Cavern and Adit	1/1/2033	12/31/2033	6	313	10	2033	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	2	20.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.2	0.00	0.00	6.5
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Haul	2	4	20.0	0.00	0.02	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	18.6	0.00	0.00	19.4
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Haul	1	2	20.0	0.00	0.02	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	17.3	0.00	0.00	18.1
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	2	20.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.2	0.00	0.00	6.5
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Haul	2	4	20.0	0.00	0.02	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	18.6	0.00	0.00	19.4
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Haul	1	2	20.0	0.00	0.02	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	17.3	0.00	0.00	18.1
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	2029	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Grading	4/1/2029	7/31/2029	6	104	10	2029	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Drainage	4/1/2029	6/30/2030	6	390	10	2029	Haul	1	2	20.0	0.00	0.03	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	23.2	0.00	0.00	24.3
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	2030	Haul	2	4	20.0	0.00	0.02	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	18.5	0.00	0.00	19.4
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	2036	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Haul	1	2	20.0	0.00	0.02	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	17.3	0.00	0.00	18.1

Sepulveda Transit Corridor Project - ALTERNATIVE 6

PRECAST HAUL TRUCKS (OFFSITE)

											Running Emission Factor (g/mile)[1,2]													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Haul	-	-	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	2029	Haul	-	-	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
UCLA Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
UCLA Station-Drainage	4/1/2029	12/31/2029	6	235	10	2029	Haul	1	2	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Haul	2	4	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	2030	Haul	-	-	-	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	2034	Haul	-	-	-	0.01	1.27	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1356.7	0.00	0.21
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	2036	Haul	-	-	-	0.01	1.24	0.04	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1327.5	0.00	0.21
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	2036	Haul	1	2	20.0	0.01	1.24	0.04	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1327.5	0.00	0.21
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	-	-	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Wilshire Blvd (Metro D Line) Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Wilshire Blvd (Metro D Line) Station-Drainage	4/1/2029	3/31/2030	6	312	10	2029	Haul	1	2	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	2029	Haul	2	4	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	2030	Haul	-	-	-	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	-	-	-	0.01	1.24	0.04	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1327.5	0.00	0.21
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Haul	1	2	20.0	0.01	1.25	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1342.3	0.00	0.21
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	-	-	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	2029	Haul	-	-	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Santa Monica Blvd Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Santa Monica Blvd Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	2	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Haul	2	4	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Haul	-	-	-	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	-	-	-	0.01	1.24	0.04	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1327.5	0.00	0.21
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Haul	1	2	20.0	0.01	1.25	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1342.3	0.00	0.21
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	-	-	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Metro E Line (Expo)/Bundy Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Metro E Line (Expo)/Bundy Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	2	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	2029	Haul	2	4	20.0	0.01	1.35	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1449.0	0.00	0.23
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Haul	-	-	-	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	-	-	-	0.01	1.24	0.04	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1327.5	0.00	0.21
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Haul	1	2	20.0	0.01	1.25	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1342.3	0.00	0.21
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Haul	-	-	-	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Vanowen St/Van Nuys Blvd TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Haul	-	-	-	0.01	1.25	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1342.3	0.00	0.21
Vanowen St/Van Nuys Blvd TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Haul	-	-	-	0.01	1.24	0.04	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1327.5	0.00	0.21
Magnolia TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Haul	-	-	-	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Magnolia TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Haul	-	-	-	0.01	1.25	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1342.3	0.00	0.21
Magnolia TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Haul	-	-	-	0.01	1.24	0.04	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1327.5	0.00	0.21
Mid Mountain Shaft TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Haul	-	-	-	0.01	1.31	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1408.2	0.00	0.22
Mid Mountain Shaft TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Haul	-	-	-	0.01	1.25	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1342.3	0.00	0.21
Mid Mountain Shaft TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Haul	-	-	-	0.01	1.24	0.04	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1327.5	0.00	0.21
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
OMSF-Grading	2/1/2033	7/31/2033	5	129	8	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Haul	-	-	-	0.01	1.27	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1356.7	0.00	0.21
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
OMSF-Drainage/Utilties	5/1/2033	10/31/2033	5	131	8	2033	Haul	-	-	-	0.01	1.28	0.05	0.01	0.42	0.03	0.44	0.11	0.02	0.14	1372.5	0.00	0.22
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	2030	Haul	-	-	-	0.01	1.33	0.05	0.01	0.41	0.03	0.44	0.11	0.02	0.14	1428.2	0.00	0.23

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate Speeds; **Fleet Mix:100%** HHDT); **Fuel Type:** Diesel
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 6

PRECAST HAUL TRUCKS (OFFSITE)

											Non-Running Emission Factor (g/trip)[1,3]													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Haul	-	-	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	2029	Haul	-	-	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
UCLA Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
UCLA Station-Drainage	4/1/2029	12/31/2029	6	235	10	2029	Haul	1	2	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Haul	2	4	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	2030	Haul	-	-	-	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	2034	Haul	-	-	-	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	2036	Haul	-	-	-	0.37	6.31	5.54	0.007	-	0.002	0.002	-	0.002	0.002	730.1	0.02	0.12
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	2036	Haul	1	2	20.0	0.37	6.31	5.54	0.007	-	0.002	0.002	-	0.002	0.002	730.1	0.02	0.12
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	-	-	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Wilshire Blvd (Metro D Line) Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Wilshire Blvd (Metro D Line) Station-Drainage	4/1/2029	3/31/2030	6	312	10	2029	Haul	1	2	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	2029	Haul	2	4	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	2030	Haul	-	-	-	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	-	-	-	0.37	6.31	5.54	0.007	-	0.002	0.002	-	0.002	0.002	730.1	0.02	0.12
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Haul	1	2	20.0	0.37	6.33	5.50	0.007	-	0.002	0.002	-	0.002	0.002	731.2	0.02	0.12
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	-	-	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	2029	Haul	-	-	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Santa Monica Blvd Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Santa Monica Blvd Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	2	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Haul	2	4	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Haul	-	-	-	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	-	-	-	0.37	6.31	5.54	0.007	-	0.002	0.002	-	0.002	0.002	730.1	0.02	0.12
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Haul	1	2	20.0	0.37	6.33	5.50	0.007	-	0.002	0.002	-	0.002	0.002	731.2	0.02	0.12
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	-	-	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Metro E Line (Expo)/Bundy Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Metro E Line (Expo)/Bundy Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	2	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	2029	Haul	2	4	20.0	0.36	6.62	5.38	0.007	-	0.002	0.002	-	0.001	0.001	769.2	0.02	0.12
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Haul	-	-	-	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Haul	-	-	-	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	-	-	-	0.37	6.31	5.54	0.007	-	0.002	0.002	-	0.002	0.002	730.1	0.02	0.12
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Haul	1	2	20.0	0.37	6.33	5.50	0.007	-	0.002	0.002	-	0.002	0.002	731.2	0.02	0.12
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Haul	-	-	-	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Vanowen St/Van Nuys Blvd TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Haul	-	-	-	0.37	6.33	5.50	0.007	-	0.002	0.002	-	0.002	0.002	731.2	0.02	0.12
Vanowen St/Van Nuys Blvd TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Haul	-	-	-	0.37	6.31	5.54	0.007	-	0.002	0.002	-	0.002	0.002	730.1	0.02	0.12
Magnolia TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Haul	-	-	-	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Magnolia TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Haul	-	-	-	0.37	6.33	5.50	0.007	-	0.002	0.002	-	0.002	0.002	731.2	0.02	0.12
Magnolia TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Haul	-	-	-	0.37	6.31	5.54	0.007	-	0.002	0.002	-	0.002	0.002	730.1	0.02	0.12
Mid Mountain Shaft TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Haul	-	-	-	0.37	6.46	5.41	0.007	-	0.002	0.002	-	0.002	0.002	750.4	0.02	0.12
Mid Mountain Shaft TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Haul	-	-	-	0.37	6.33	5.50	0.007	-	0.002	0.002	-	0.002	0.002	731.2	0.02	0.12
Mid Mountain Shaft TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Haul	-	-	-	0.37	6.31	5.54	0.007	-	0.002	0.002	-	0.002	0.002	730.1	0.02	0.12
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	2033	Haul	-	-	-	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
OMSF-Grading	2/1/2033	7/31/2033	5	129	8	2033	Haul	-	-	-	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Haul	-	-	-	0.37	6.35	5.48	0.007	-	0.002	0.002	-	0.002	0.002	734.2	0.02	0.12
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	2033	Haul	-	-	-	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
OMSF-Drainage/Utilties	5/1/2033	10/31/2033	5	131	8	2033	Haul	-	-	-	0.37	6.38	5.45	0.007	-	0.002	0.002	-	0.002	0.002	738.3	0.02	0.12
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	2030	Haul	-	-	-	0.36	6.53	5.39	0.007	-	0.002	0.002	-	0.001	0.001	758.7	0.02	0.12

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate Speeds; **Fleet Mix:100%** HHDT); **Fuel Type:** Diesel
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 6

PRECAST HAUL TRUCKS (OFFSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Daily Emissions (lb/day)												
											ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	2029	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Drainage	4/1/2029	12/31/2029	6	235	10	2029	Haul	1	2	20.0	0.00	0.15	0.03	0.00	0.04	0.00	0.04	0.01	0.00	0.01	131.2	0.00	0.02
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Haul	2	4	20.0	0.01	0.30	0.06	0.00	0.07	0.00	0.08	0.02	0.00	0.02	262.4	0.00	0.04
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	2030	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	2034	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	2036	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	2036	Haul	1	2	20.0	0.00	0.14	0.03	0.00	0.04	0.00	0.04	0.01	0.00	0.01	120.3	0.00	0.02
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Drainage	4/1/2029	3/31/2030	6	312	10	2029	Haul	1	2	20.0	0.00	0.15	0.03	0.00	0.04	0.00	0.04	0.01	0.00	0.01	131.2	0.00	0.02
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	2029	Haul	2	4	20.0	0.01	0.30	0.06	0.00	0.07	0.00	0.08	0.02	0.00	0.02	262.4	0.00	0.04
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	2030	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Haul	1	2	20.0	0.00	0.14	0.03	0.00	0.04	0.00	0.04	0.01	0.00	0.01	121.6	0.00	0.02
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	2029	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	2	20.0	0.00	0.15	0.03	0.00	0.04	0.00	0.04	0.01	0.00	0.01	131.2	0.00	0.02
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Haul	2	4	20.0	0.01	0.30	0.06	0.00	0.07	0.00	0.08	0.02	0.00	0.02	262.4	0.00	0.04
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Haul	1	2	20.0	0.00	0.14	0.03	0.00	0.04	0.00	0.04	0.01	0.00	0.01	121.6	0.00	0.02
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	2	20.0	0.00	0.15	0.03	0.00	0.04	0.00	0.04	0.01	0.00	0.01	131.2	0.00	0.02
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	2029	Haul	2	4	20.0	0.01	0.30	0.06	0.00	0.07	0.00	0.08	0.02	0.00	0.02	262.4	0.00	0.04
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Haul	1	2	20.0	0.00	0.14	0.03	0.00	0.04	0.00	0.04	0.01	0.00	0.01	121.6	0.00	0.02
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanowen St/Van Nuys Blvd TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanowen St/Van Nuys Blvd TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnolia TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnolia TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnolia TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Grading	2/1/2033	7/31/2033	5	129	8	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Drainage/Utilties	5/1/2033	10/31/2033	5	131	8	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	2030	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate Speeds; **Fleet Mix:100%** HHDT); **Fuel Type:** Diesel
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

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Sepulveda Transit Corridor Project - ALTERNATIVE 6

PRECAST HAUL TRUCKS (OFFSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Total Emissions (tons)										Total Emissions (metric tons)			
											ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	2029	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Drainage	4/1/2029	12/31/2029	6	235	10	2029	Haul	1	2	20.0	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.0	0.00	0.00	14.6
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Haul	2	4	20.0	0.00	0.02	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	18.6	0.00	0.00	19.4
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	2030	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	2034	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	2036	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	2036	Haul	1	2	20.0	0.00	0.02	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	17.1	0.00	0.00	17.9
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Drainage	4/1/2029	3/31/2030	6	312	10	2029	Haul	1	2	20.0	0.00	0.02	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	18.6	0.00	0.00	19.4
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	2029	Haul	2	4	20.0	0.00	0.03	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	24.9	0.00	0.00	26.0
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	2030	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Haul	1	2	20.0	0.00	0.02	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	17.3	0.00	0.00	18.1
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	2029	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	2	20.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.2	0.00	0.00	6.5
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Haul	2	4	20.0	0.00	0.02	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	18.6	0.00	0.00	19.4
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Haul	1	2	20.0	0.00	0.02	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	17.3	0.00	0.00	18.1
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Haul	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Haul	1	2	20.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.2	0.00	0.00	6.5
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	2029	Haul	2	4	20.0	0.00	0.05	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.2	0.00	0.01	39.0
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Haul	1	2	20.0	0.00	0.02	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	17.3	0.00	0.00	18.1
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanowen St/Van Nuys Blvd TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanowen St/Van Nuys Blvd TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnolia TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnolia TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnolia TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Grading	2/1/2033	7/31/2033	5	129	8	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Drainage/Utilties	5/1/2033	10/31/2033	5	131	8	2033	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	2030	Haul	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate Speeds; **Fleet Mix:100%** HHDT); **Fuel Type:** Diesel
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 6

VENDOR TRUCKS (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Onsite Trips	Onsite Trip Length (miles)	Running Emission Factor (g/mile)[1,2,4] ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Westside-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Concrete	1	1	0.1	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Segment 1-Westside-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Concrete	-	-	0.1	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Segment 1-Westside-Tunnel Boring/Tunneling	9/1/2031	10/31/2032	6	366	20	2031	Concrete	-	-	0.1	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Segment 1-Westside-TBM Retrieval/Tunnel Prep	11/1/2032	4/30/2033	6	156	20	2032	Concrete	-	-	0.1	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Segment 1-Westside-Annular Grouting	9/1/2031	10/31/2032	6	366	20	2031	Concrete	13	13	0.1	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Segment 1-Westside-Invert Construction	4/1/2034	7/31/2034	6	104	20	2034	Concrete	18	18	0.1	0.02	2.78	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1655.8	0.00	0.26
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	2033	Concrete	1	1	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Segment 1-Westside-Rail and Plinth	8/1/2034	1/31/2035	6	158	20	2034	Concrete	5	5	0.1	0.02	2.78	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1655.8	0.00	0.26
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Concrete	-	-	0.1	0.02	2.76	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1639.3	0.00	0.26
Segment 2-Mountain-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Concrete	-	-	0.1	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Segment 2-Mountain-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Concrete	-	-	0.1	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Segment 2-Mountain-Tunnel Boring/Tunneling	9/1/2031	1/31/2034	6	758	20	2031	Concrete	-	-	0.1	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Segment 2-Mountain-TBM Retrieval/Tunnel Prep	2/1/2034	7/31/2034	6	155	20	2034	Concrete	-	-	0.1	0.02	2.78	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1655.8	0.00	0.26
Segment 2-Mountain-Annular Grouting	9/1/2031	1/31/2034	6	758	20	2031	Concrete	12	12	0.1	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Segment 2-Mountain-Invert Construction	5/1/2035	2/28/2037	6	575	20	2035	Concrete	18	18	0.1	0.02	2.76	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1639.3	0.00	0.26
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	2034	Concrete	1	1	0.1	0.02	2.78	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1655.8	0.00	0.26
Segment 2-Mountain-Rail and Plinth	4/1/2036	3/31/2037	6	313	20	2036	Concrete	4	4	0.1	0.02	2.73	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1623.6	0.00	0.26
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	2036	Concrete	-	-	0.1	0.02	2.73	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1623.6	0.00	0.26
Segment 3-Valley-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Concrete	1	1	0.1	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Segment 3-Valley-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Concrete	-	-	0.1	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Segment 3-Valley-Tunnel Boring/Tunneling	9/1/2031	8/31/2032	6	314	20	2031	Concrete	12	12	0.1	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Segment 3-Valley-TBM Retrieval/Tunnel Prep	9/1/2032	2/28/2033	6	155	20	2032	Concrete	-	-	0.1	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Segment 3-Valley-Annular Grouting	9/1/2031	8/31/2032	6	314	20	2031	Concrete	13	13	0.1	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Segment 3-Valley-Invert Construction	4/1/2034	5/31/2035	6	365	20	2034	Concrete	18	18	0.1	0.02	2.78	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1655.8	0.00	0.26
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	2032	Concrete	1	1	0.1	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Segment 3-Valley-Rail and Plinth	8/1/2034	9/30/2035	6	365	20	2034	Concrete	3	3	0.1	0.02	2.78	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1655.8	0.00	0.26
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Concrete	-	-	0.1	0.02	2.76	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1639.3	0.00	0.26
Mid Mountain Shaft-Site Preparation/Demolition	11/1/2031	12/31/2031	6	52	10	2031	Concrete	3	3	0.1	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	2031	Concrete	-	-	0.1	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Mid Mountain Shaft-Drainage/Utilities	11/1/2031	12/31/2031	6	52	10	2031	Concrete	1	1	0.1	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Mid Mountain Shaft-Shaft Drilling	1/1/2032	12/31/2032	6	314	10	2032	Concrete	-	-	0.1	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Mid Mountain Shaft-Shaft Lining	1/1/2032	12/31/2032	6	314	10	2032	Concrete	-	-	0.1	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Mid Mountain Shaft-Cavern and Adit	1/1/2033	12/31/2033	6	313	10	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete	1	1	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Van Nuys Metrolink Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Van Nuys Metrolink Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Concrete	4	4	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Concrete	18	18	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Concrete	-	-	0.1	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Concrete	7	7	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Concrete	-	-	0.1	0.02	2.73	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1623.6	0.00	0.26
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Concrete	1	1	0.1	0.02	2.76	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1639.3	0.00	0.26
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete	1	1	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Metro G Line Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Metro G Line Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Concrete	4	4	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Concrete	19	19	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Concrete	-	-	0.1	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Concrete	9	9	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Concrete	-	-	0.1	0.02	2.73	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1623.6	0.00	0.26
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Concrete	1	1	0.1	0.02	2.76	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1639.3	0.00	0.26
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete	1	1	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	2029	Concrete	-	-	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Ventura Blvd Station-Grading	4/1/2029	7/31/2029	6	104	10	2029	Concrete	-	-	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Ventura Blvd Station-Drainage	4/1/2029	6/30/2030	6	390	10	2029	Concrete	4	4	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	2030	Concrete	21	21	0.1	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	2031	Concrete	-	-	0.1	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Concrete	7	7	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	2036	Concrete	-	-	0.1	0.02	2.73	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1623.6	0.00	0.26
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Concrete	1	1	0.1	0.02	2.76	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1639.3	0.00	0.26

Sepulveda Transit Corridor Project - ALTERNATIVE 6

VENDOR TRUCKS (ONSITE)

											Non-Running Emission Factor (g/trip)[1,3]													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Onsite Trips	Onsite Trip Length (miles)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Westside-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Concrete	1	1	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Segment 1-Westside-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Concrete	-	-	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Segment 1-Westside-Tunnel Boring/Tunneling	9/1/2031	10/31/2032	6	366	20	2031	Concrete	-	-	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Segment 1-Westside-TBM Retrieval/Tunnel Prep	11/1/2032	4/30/2033	6	156	20	2032	Concrete	-	-	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
Segment 1-Westside-Annular Grouting	9/1/2031	10/31/2032	6	366	20	2031	Concrete	13	13	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Segment 1-Westside-Invert Construction	4/1/2034	7/31/2034	6	104	20	2034	Concrete	18	18	0.1	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	2033	Concrete	1	1	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
Segment 1-Westside-Rail and Plinth	8/1/2034	1/31/2035	6	158	20	2034	Concrete	5	5	0.1	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Concrete	-	-	0.1	0.19	4.12	3.05	0.004	-	0.001	0.001	-	0.001	0.001	445.5	0.01	0.07
Segment 2-Mountain-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Concrete	-	-	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Segment 2-Mountain-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Concrete	-	-	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Segment 2-Mountain-Tunnel Boring/Tunneling	9/1/2031	1/31/2034	6	758	20	2031	Concrete	-	-	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Segment 2-Mountain-TBM Retrieval/Tunnel Prep	2/1/2034	7/31/2034	6	155	20	2034	Concrete	-	-	0.1	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
Segment 2-Mountain-Annular Grouting	9/1/2031	1/31/2034	6	758	20	2031	Concrete	12	12	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Segment 2-Mountain-Invert Construction	5/1/2035	2/28/2037	6	575	20	2035	Concrete	18	18	0.1	0.19	4.12	3.05	0.004	-	0.001	0.001	-	0.001	0.001	445.5	0.01	0.07
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	2034	Concrete	1	1	0.1	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
Segment 2-Mountain-Rail and Plinth	4/1/2036	3/31/2037	6	313	20	2036	Concrete	4	4	0.1	0.19	4.09	3.07	0.004	-	0.001	0.001	-	0.001	0.001	444.4	0.01	0.07
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	2036	Concrete	-	-	0.1	0.19	4.09	3.07	0.004	-	0.001	0.001	-	0.001	0.001	444.4	0.01	0.07
Segment 3-Valley-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Concrete	1	1	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Segment 3-Valley-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Concrete	-	-	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Segment 3-Valley-Tunnel Boring/Tunneling	9/1/2031	8/31/2032	6	314	20	2031	Concrete	12	12	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Segment 3-Valley-TBM Retrieval/Tunnel Prep	9/1/2032	2/28/2033	6	155	20	2032	Concrete	-	-	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
Segment 3-Valley-Annular Grouting	9/1/2031	8/31/2032	6	314	20	2031	Concrete	13	13	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Segment 3-Valley-Invert Construction	4/1/2034	5/31/2035	6	365	20	2034	Concrete	18	18	0.1	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	2032	Concrete	1	1	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
Segment 3-Valley-Rail and Plinth	8/1/2034	9/30/2035	6	365	20	2034	Concrete	3	3	0.1	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Concrete	-	-	0.1	0.19	4.12	3.05	0.004	-	0.001	0.001	-	0.001	0.001	445.5	0.01	0.07
Mid Mountain Shaft-Site Preparation/Demolition	11/1/2031	12/31/2031	6	52	10	2031	Concrete	3	3	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	2031	Concrete	-	-	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Mid Mountain Shaft-Drainage/Utilities	11/1/2031	12/31/2031	6	52	10	2031	Concrete	1	1	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Mid Mountain Shaft-Shaft Drilling	1/1/2032	12/31/2032	6	314	10	2032	Concrete	-	-	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
Mid Mountain Shaft-Shaft Lining	1/1/2032	12/31/2032	6	314	10	2032	Concrete	-	-	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
Mid Mountain Shaft-Cavern and Adit	1/1/2033	12/31/2033	6	313	10	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete	1	1	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Van Nuys Metrolink Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Van Nuys Metrolink Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Concrete	4	4	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Concrete	18	18	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Concrete	-	-	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Concrete	7	7	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Concrete	-	-	0.1	0.19	4.09	3.07	0.004	-	0.001	0.001	-	0.001	0.001	444.4	0.01	0.07
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Concrete	1	1	0.1	0.19	4.12	3.05	0.004	-	0.001	0.001	-	0.001	0.001	445.5	0.01	0.07
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete	1	1	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Metro G Line Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Metro G Line Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Concrete	4	4	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Concrete	19	19	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Concrete	-	-	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Concrete	9	9	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Concrete	-	-	0.1	0.19	4.09	3.07	0.004	-	0.001	0.001	-	0.001	0.001	444.4	0.01	0.07
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Concrete	1	1	0.1	0.19	4.12	3.05	0.004	-	0.001	0.001	-	0.001	0.001	445.5	0.01	0.07
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete	1	1	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	2029	Concrete	-	-	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Ventura Blvd Station-Grading	4/1/2029	7/31/2029	6	104	10	2029	Concrete	-	-	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Ventura Blvd Station-Drainage	4/1/2029	6/30/2030	6	390	10	2029	Concrete	4	4	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	2030	Concrete	21	21	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	2031	Concrete	-	-	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Concrete	7	7	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	2036	Concrete	-	-	0.1	0.19	4.09	3.07	0.004	-	0.001	0.001	-	0.001	0.001	444.4	0.01	0.07
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Concrete	1	1	0.1	0.19	4.12	3.05	0.004	-	0.001	0.001	-	0.001	0.001	445.5	0.01	0.07

Sepulveda Transit Corridor Project - ALTERNATIVE 6

VENDOR TRUCKS (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Onsite Trips	Onsite Trip Length (miles)	Daily Emissions (lb/day)												
											ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Westside-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Concrete	1	1	0.1	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	1.4	0.00	0.00
Segment 1-Westside-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Tunnel Boring/Tunneling	9/1/2031	10/31/2032	6	366	20	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-TBM Retrieval/Tunnel Prep	11/1/2032	4/30/2033	6	156	20	2032	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Annular Grouting	9/1/2031	10/31/2032	6	366	20	2031	Concrete	13	13	0.1	0.01	0.13	0.09	0.00	0.53	0.00	0.53	0.05	0.00	0.05	18.0	0.00	0.00
Segment 1-Westside-Invert Construction	4/1/2034	7/31/2034	6	104	20	2034	Concrete	18	18	0.1	0.01	0.18	0.12	0.00	0.73	0.00	0.73	0.07	0.00	0.07	24.3	0.00	0.00
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	2033	Concrete	1	1	0.1	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	1.4	0.00	0.00
Segment 1-Westside-Rail and Plinth	8/1/2034	1/31/2035	6	158	20	2034	Concrete	5	5	0.1	0.00	0.05	0.03	0.00	0.20	0.00	0.20	0.02	0.00	0.02	6.8	0.00	0.00
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Tunnel Boring/Tunneling	9/1/2031	1/31/2034	6	758	20	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-TBM Retrieval/Tunnel Prep	2/1/2034	7/31/2034	6	155	20	2034	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Annular Grouting	9/1/2031	1/31/2034	6	758	20	2031	Concrete	12	12	0.1	0.01	0.12	0.08	0.00	0.49	0.00	0.49	0.05	0.00	0.05	16.6	0.00	0.00
Segment 2-Mountain-Invert Construction	5/1/2035	2/28/2037	6	575	20	2035	Concrete	18	18	0.1	0.01	0.17	0.12	0.00	0.73	0.00	0.73	0.07	0.00	0.07	24.2	0.00	0.00
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	2034	Concrete	1	1	0.1	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	1.4	0.00	0.00
Segment 2-Mountain-Rail and Plinth	4/1/2036	3/31/2037	6	313	20	2036	Concrete	4	4	0.1	0.00	0.04	0.03	0.00	0.16	0.00	0.16	0.02	0.00	0.02	5.4	0.00	0.00
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	2036	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Concrete	1	1	0.1	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	1.4	0.00	0.00
Segment 3-Valley-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Tunnel Boring/Tunneling	9/1/2031	8/31/2032	6	314	20	2031	Concrete	12	12	0.1	0.01	0.12	0.08	0.00	0.49	0.00	0.49	0.05	0.00	0.05	16.6	0.00	0.00
Segment 3-Valley-TBM Retrieval/Tunnel Prep	9/1/2032	2/28/2033	6	155	20	2032	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Annular Grouting	9/1/2031	8/31/2032	6	314	20	2031	Concrete	13	13	0.1	0.01	0.13	0.09	0.00	0.53	0.00	0.53	0.05	0.00	0.05	18.0	0.00	0.00
Segment 3-Valley-Invert Construction	4/1/2034	5/31/2035	6	365	20	2034	Concrete	18	18	0.1	0.01	0.18	0.12	0.00	0.73	0.00	0.73	0.07	0.00	0.07	24.3	0.00	0.00
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	2032	Concrete	1	1	0.1	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	1.4	0.00	0.00
Segment 3-Valley-Rail and Plinth	8/1/2034	9/30/2035	6	365	20	2034	Concrete	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Site Preparation/Demolition	11/1/2031	12/31/2031	6	52	10	2031	Concrete	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Drainage/Utilities	11/1/2031	12/31/2031	6	52	10	2031	Concrete	1	1	0.1	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	1.4	0.00	0.00
Mid Mountain Shaft-Shaft Drilling	1/1/2032	12/31/2032	6	314	10	2032	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Shaft Lining	1/1/2032	12/31/2032	6	314	10	2032	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Cavern and Adit	1/1/2033	12/31/2033	6	313	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete	1	1	0.1	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	1.4	0.00	0.00
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Concrete	4	4	0.1	0.00	0.04	0.03	0.00	0.16	0.00	0.16	0.02	0.00	0.02	5.7	0.00	0.00
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Concrete	18	18	0.1	0.01	0.19	0.12	0.00	0.73	0.00	0.73	0.07	0.00	0.07	25.6	0.00	0.00
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Concrete	7	7	0.1	0.00	0.07	0.05	0.00	0.28	0.00	0.28	0.03	0.00	0.03	9.5	0.00	0.00
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Concrete	1	1	0.1	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	1.3	0.00	0.00
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete	1	1	0.1	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	1.4	0.00	0.00
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Concrete	4	4	0.1	0.00	0.04	0.03	0.00	0.16	0.00	0.16	0.02	0.00	0.02	5.7	0.00	0.00
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Concrete	19	19	0.1	0.01	0.20	0.13	0.00	0.77	0.00	0.77	0.08	0.00	0.08	27.0	0.00	0.00
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Concrete	9	9	0.1	0.00	0.09	0.06	0.00	0.37	0.00	0.37	0.04	0.00	0.04	12.3	0.00	0.00
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Concrete	1	1	0.1	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	1.3	0.00	0.00
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete	1	1	0.1	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	1.4	0.00	0.00
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Grading	4/1/2029	7/31/2029	6	104	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Drainage	4/1/2029	6/30/2030	6	390	10	2029	Concrete	4	4	0.1	0.00	0.04	0.03	0.00	0.16	0.00	0.16	0.02	0.00	0.02	5.7	0.00	0.00
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	2030	Concrete	21	21	0.1	0.01	0.21	0.14	0.00	0.85	0.00	0.85	0.09	0.00	0.09	29.4	0.00	0.00
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Concrete	7	7	0.1	0.00	0.07	0.05	0.00	0.28	0.00	0.28	0.03	0.00	0.03	9.5	0.00	0.00
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	2036	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Concrete	1	1	0.1	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	1.3	0.00	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 6

VENDOR TRUCKS (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Onsite Trips	Onsite Trip Length (miles)	Total Emissions (tons) ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	Total Emissions (metric tons) CO_2	CH_4	N_2O	CO_2e
Segment 1-Westside-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Concrete	1	1	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Segment 1-Westside-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Tunnel Boring/Tunneling	9/1/2031	10/31/2032	6	366	20	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-TBM Retrieval/Tunnel Prep	11/1/2032	4/30/2033	6	156	20	2032	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Annular Grouting	9/1/2031	10/31/2032	6	366	20	2031	Concrete	13	13	0.1	0.00	0.02	0.02	0.00	0.10	0.00	0.10	0.01	0.00	0.01	3.0	0.00	0.00	3.1
Segment 1-Westside-Invert Construction	4/1/2034	7/31/2034	6	104	20	2034	Concrete	18	18	0.1	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	1.1	0.00	0.00	1.2
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	2033	Concrete	1	1	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Segment 1-Westside-Rail and Plinth	8/1/2034	1/31/2035	6	158	20	2034	Concrete	5	5	0.1	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.5	0.00	0.00	0.5
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Tunnel Boring/Tunneling	9/1/2031	1/31/2034	6	758	20	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-TBM Retrieval/Tunnel Prep	2/1/2034	7/31/2034	6	155	20	2034	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Annular Grouting	9/1/2031	1/31/2034	6	758	20	2031	Concrete	12	12	0.1	0.00	0.05	0.03	0.00	0.18	0.00	0.18	0.02	0.00	0.02	5.7	0.00	0.00	6.0
Segment 2-Mountain-Invert Construction	5/1/2035	2/28/2037	6	575	20	2035	Concrete	18	18	0.1	0.00	0.05	0.04	0.00	0.21	0.00	0.21	0.02	0.00	0.02	6.3	0.00	0.00	6.6
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	2034	Concrete	1	1	0.1	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.5	0.00	0.00	0.5
Segment 2-Mountain-Rail and Plinth	4/1/2036	3/31/2037	6	313	20	2036	Concrete	4	4	0.1	0.00	0.01	0.00	0.00	0.03	0.00	0.03	0.00	0.00	0.00	0.8	0.00	0.00	0.8
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	2036	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Concrete	1	1	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Segment 3-Valley-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Tunnel Boring/Tunneling	9/1/2031	8/31/2032	6	314	20	2031	Concrete	12	12	0.1	0.00	0.02	0.01	0.00	0.08	0.00	0.08	0.01	0.00	0.01	2.4	0.00	0.00	2.5
Segment 3-Valley-TBM Retrieval/Tunnel Prep	9/1/2032	2/28/2033	6	155	20	2032	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Annular Grouting	9/1/2031	8/31/2032	6	314	20	2031	Concrete	13	13	0.1	0.00	0.02	0.01	0.00	0.08	0.00	0.08	0.01	0.00	0.01	2.6	0.00	0.00	2.7
Segment 3-Valley-Invert Construction	4/1/2034	5/31/2035	6	365	20	2034	Concrete	18	18	0.1	0.00	0.03	0.02	0.00	0.13	0.00	0.13	0.01	0.00	0.01	4.0	0.00	0.00	4.2
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	2032	Concrete	1	1	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
Segment 3-Valley-Rail and Plinth	8/1/2034	9/30/2035	6	365	20	2034	Concrete	3	3	0.1	0.00	0.01	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.7	0.00	0.00	0.7
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Site Preparation/Demolition	11/1/2031	12/31/2031	6	52	10	2031	Concrete	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Drainage/Utilities	11/1/2031	12/31/2031	6	52	10	2031	Concrete	1	1	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.0
Mid Mountain Shaft-Shaft Drilling	1/1/2032	12/31/2032	6	314	10	2032	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Shaft Lining	1/1/2032	12/31/2032	6	314	10	2032	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Cavern and Adit	1/1/2033	12/31/2033	6	313	10	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete	1	1	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Concrete	4	4	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Concrete	18	18	0.1	0.00	0.01	0.01	0.00	0.06	0.00	0.06	0.01	0.00	0.01	1.8	0.00	0.00	1.9
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Concrete	7	7	0.1	0.00	0.03	0.02	0.00	0.14	0.00	0.14	0.01	0.00	0.01	4.2	0.00	0.00	4.4
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Concrete	1	1	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete	1	1	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Concrete	4	4	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Concrete	19	19	0.1	0.00	0.02	0.01	0.00	0.06	0.00	0.06	0.01	0.00	0.01	1.9	0.00	0.00	2.0
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Concrete	9	9	0.1	0.00	0.04	0.03	0.00	0.17	0.00	0.17	0.02	0.00	0.02	5.2	0.00	0.00	5.5
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Concrete	1	1	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete	1	1	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Grading	4/1/2029	7/31/2029	6	104	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Drainage	4/1/2029	6/30/2030	6	390	10	2029	Concrete	4	4	0.1	0.00	0.01	0.01	0.00	0.03	0.00	0.03	0.00	0.00	0.00	1.0	0.00	0.00	1.1
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	2030	Concrete	21	21	0.1	0.00	0.02	0.01	0.00	0.07	0.00	0.07	0.01	0.00	0.01	2.1	0.00	0.00	2.2
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Concrete	7	7	0.1	0.00	0.03	0.02	0.00	0.13	0.00	0.13	0.01	0.00	0.01	4.1	0.00	0.00	4.3
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	2036	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Concrete	1	1	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.2

Sepulveda Transit Corridor Project - ALTERNATIVE 6

VENDOR TRUCKS (ONSITE)

											Running Emission Factor (g/mile)[1,2,4]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Onsite Trips	Onsite Trip Length (miles)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Concrete	1	1	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	2029	Concrete	-	-	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
UCLA Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
UCLA Station-Drainage	4/1/2029	12/31/2029	6	235	10	2029	Concrete	4	4	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Concrete	31	31	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	2030	Concrete	-	-	0.1	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	2034	Concrete	7	7	0.1	0.02	2.78	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1655.8	0.00	0.26
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	2036	Concrete	-	-	0.1	0.02	2.73	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1623.6	0.00	0.26
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	2036	Concrete	1	1	0.1	0.02	2.73	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1623.6	0.00	0.26
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete	1	1	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Wilshire Blvd (Metro D Line) Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Wilshire Blvd (Metro D Line) Station-Drainage	4/1/2029	3/31/2030	6	312	10	2029	Concrete	4	4	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	2029	Concrete	18	18	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	2030	Concrete	-	-	0.1	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Concrete	5	5	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Concrete	-	-	0.1	0.02	2.73	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1623.6	0.00	0.26
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Concrete	1	1	0.1	0.02	2.76	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1639.3	0.00	0.26
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete	1	1	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	2029	Concrete	-	-	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Santa Monica Blvd Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Santa Monica Blvd Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Concrete	4	4	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Concrete	23	23	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Concrete	-	-	0.1	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Concrete	7	7	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Concrete	-	-	0.1	0.02	2.73	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1623.6	0.00	0.26
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Concrete	1	1	0.1	0.02	2.76	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1639.3	0.00	0.26
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete	1	1	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Metro E Line (Expo)/Bundy Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Metro E Line (Expo)/Bundy Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Concrete	4	4	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	2029	Concrete	16	16	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Concrete	-	-	0.1	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Concrete	11	11	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Concrete	-	-	0.1	0.02	2.73	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1623.6	0.00	0.26
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Concrete	1	1	0.1	0.02	2.76	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1639.3	0.00	0.26
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Concrete	-	-	0.1	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Vanowen St/Van Nuys Blvd TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Concrete	1	1	0.1	0.02	2.76	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1639.3	0.00	0.26
Vanowen St/Van Nuys Blvd TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Concrete	-	-	0.1	0.02	2.73	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1623.6	0.00	0.26
Magnolia TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Concrete	-	-	0.1	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Magnolia TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Concrete	1	1	0.1	0.02	2.76	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1639.3	0.00	0.26
Magnolia TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Concrete	-	-	0.1	0.02	2.73	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1623.6	0.00	0.26
Mid Mountain Shaft TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Concrete	-	-	0.1	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Mid Mountain Shaft TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Concrete	1	1	0.1	0.02	2.76	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1639.3	0.00	0.26
Mid Mountain Shaft TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Concrete	-	-	0.1	0.02	2.73	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1623.6	0.00	0.26
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
OMSF-Grading	2/1/2033	7/31/2033	5	129	8	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Concrete	-	-	0.1	0.02	2.78	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1655.8	0.00	0.26
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
OMSF-Drainage/Utilties	5/1/2033	10/31/2033	5	131	8	2033	Concrete	-	-	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	2030	Concrete	-	-	0.1	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** Heavy Duty-Mix (50% MHDT/50% HHDT); **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 6

VENDOR TRUCKS (ONSITE)

											Non-Running Emission Factor (g/trip)[1,3]													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Onsite Trips	Onsite Trip Length (miles)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Concrete	1	1	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	2029	Concrete	-	-	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
UCLA Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
UCLA Station-Drainage	4/1/2029	12/31/2029	6	235	10	2029	Concrete	4	4	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Concrete	31	31	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	2030	Concrete	-	-	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	2034	Concrete	7	7	0.1	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	2036	Concrete	-	-	0.1	0.19	4.09	3.07	0.004	-	0.001	0.001	-	0.001	0.001	444.4	0.01	0.07
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	2036	Concrete	1	1	0.1	0.19	4.09	3.07	0.004	-	0.001	0.001	-	0.001	0.001	444.4	0.01	0.07
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete	1	1	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Wilshire Blvd (Metro D Line) Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Wilshire Blvd (Metro D Line) Station-Drainage	4/1/2029	3/31/2030	6	312	10	2029	Concrete	4	4	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	2029	Concrete	18	18	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	2030	Concrete	-	-	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Concrete	5	5	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Concrete	-	-	0.1	0.19	4.09	3.07	0.004	-	0.001	0.001	-	0.001	0.001	444.4	0.01	0.07
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Concrete	1	1	0.1	0.19	4.12	3.05	0.004	-	0.001	0.001	-	0.001	0.001	445.5	0.01	0.07
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete	1	1	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	2029	Concrete	-	-	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Santa Monica Blvd Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Santa Monica Blvd Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Concrete	4	4	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Concrete	23	23	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Concrete	-	-	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Concrete	7	7	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Concrete	-	-	0.1	0.19	4.09	3.07	0.004	-	0.001	0.001	-	0.001	0.001	444.4	0.01	0.07
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Concrete	1	1	0.1	0.19	4.12	3.05	0.004	-	0.001	0.001	-	0.001	0.001	445.5	0.01	0.07
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete	1	1	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Metro E Line (Expo)/Bundy Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Metro E Line (Expo)/Bundy Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Concrete	4	4	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	2029	Concrete	16	16	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Concrete	-	-	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Concrete	11	11	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Concrete	-	-	0.1	0.19	4.09	3.07	0.004	-	0.001	0.001	-	0.001	0.001	444.4	0.01	0.07
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Concrete	1	1	0.1	0.19	4.12	3.05	0.004	-	0.001	0.001	-	0.001	0.001	445.5	0.01	0.07
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Concrete	-	-	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Vanowen St/Van Nuys Blvd TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Concrete	1	1	0.1	0.19	4.12	3.05	0.004	-	0.001	0.001	-	0.001	0.001	445.5	0.01	0.07
Vanowen St/Van Nuys Blvd TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Concrete	-	-	0.1	0.19	4.09	3.07	0.004	-	0.001	0.001	-	0.001	0.001	444.4	0.01	0.07
Magnolia TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Concrete	-	-	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Magnolia TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Concrete	1	1	0.1	0.19	4.12	3.05	0.004	-	0.001	0.001	-	0.001	0.001	445.5	0.01	0.07
Magnolia TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Concrete	-	-	0.1	0.19	4.09	3.07	0.004	-	0.001	0.001	-	0.001	0.001	444.4	0.01	0.07
Mid Mountain Shaft TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Concrete	-	-	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Mid Mountain Shaft TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Concrete	1	1	0.1	0.19	4.12	3.05	0.004	-	0.001	0.001	-	0.001	0.001	445.5	0.01	0.07
Mid Mountain Shaft TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Concrete	-	-	0.1	0.19	4.09	3.07	0.004	-	0.001	0.001	-	0.001	0.001	444.4	0.01	0.07
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
OMSF-Grading	2/1/2033	7/31/2033	5	129	8	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Concrete	-	-	0.1	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
OMSF-Drainage/Utilties	5/1/2033	10/31/2033	5	131	8	2033	Concrete	-	-	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	2030	Concrete	-	-	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** Heavy Duty-Mix (50% MHDT/50% HHDT); **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 6

VENDOR TRUCKS (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Onsite Trips	Onsite Trip Length (miles)	Daily Emissions (lb/day)												
											ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Concrete	1	1	0.1	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	1.4	0.00	0.00
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Drainage	4/1/2029	12/31/2029	6	235	10	2029	Concrete	4	4	0.1	0.00	0.04	0.03	0.00	0.16	0.00	0.16	0.02	0.00	0.02	5.7	0.00	0.00
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Concrete	31	31	0.1	0.01	0.32	0.21	0.00	1.26	0.00	1.26	0.13	0.00	0.13	44.0	0.00	0.01
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	2034	Concrete	7	7	0.1	0.00	0.07	0.05	0.00	0.28	0.00	0.28	0.03	0.00	0.03	9.5	0.00	0.00
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	2036	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	2036	Concrete	1	1	0.1	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	1.3	0.00	0.00
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete	1	1	0.1	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	1.4	0.00	0.00
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Drainage	4/1/2029	3/31/2030	6	312	10	2029	Concrete	4	4	0.1	0.00	0.04	0.03	0.00	0.16	0.00	0.16	0.02	0.00	0.02	5.7	0.00	0.00
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	2029	Concrete	18	18	0.1	0.01	0.19	0.12	0.00	0.73	0.00	0.73	0.07	0.00	0.07	25.6	0.00	0.00
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Concrete	5	5	0.1	0.00	0.05	0.03	0.00	0.20	0.00	0.20	0.02	0.00	0.02	6.8	0.00	0.00
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Concrete	1	1	0.1	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	1.3	0.00	0.00
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete	1	1	0.1	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	1.4	0.00	0.00
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Concrete	4	4	0.1	0.00	0.04	0.03	0.00	0.16	0.00	0.16	0.02	0.00	0.02	5.7	0.00	0.00
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Concrete	23	23	0.1	0.01	0.24	0.15	0.00	0.93	0.00	0.93	0.09	0.00	0.09	32.7	0.00	0.01
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Concrete	7	7	0.1	0.00	0.07	0.05	0.00	0.28	0.00	0.28	0.03	0.00	0.03	9.5	0.00	0.00
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Concrete	1	1	0.1	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	1.3	0.00	0.00
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete	1	1	0.1	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	1.4	0.00	0.00
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Concrete	4	4	0.1	0.00	0.04	0.03	0.00	0.16	0.00	0.16	0.02	0.00	0.02	5.7	0.00	0.00
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	2029	Concrete	16	16	0.1	0.01	0.17	0.11	0.00	0.65	0.00	0.65	0.06	0.00	0.06	22.7	0.00	0.00
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Concrete	11	11	0.1	0.00	0.11	0.07	0.00	0.45	0.00	0.45	0.04	0.00	0.04	15.0	0.00	0.00
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Concrete	1	1	0.1	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	1.3	0.00	0.00
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanowen St/Van Nuys Blvd TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Concrete	1	1	0.1	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	1.3	0.00	0.00
Vanowen St/Van Nuys Blvd TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnolia TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnolia TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Concrete	1	1	0.1	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	1.3	0.00	0.00
Magnolia TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Concrete	1	1	0.1	0.00	0.01	0.01	0.00	0.04	0.00	0.04	0.00	0.00	0.00	1.3	0.00	0.00
Mid Mountain Shaft TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Grading	2/1/2033	7/31/2033	5	129	8	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Drainage/Utilties	5/1/2033	10/31/2033	5	131	8	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** Heavy Duty-Mix (50% MHDT/50% HHDT); **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 6

VENDOR TRUCKS (ONSITE)

											Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Hours per Workday**	**EF Year**	**Trip Type**	**Round Trips per Day**	**Onsite Trips**	**Onsite Trip Length (miles)**	**ROG**	**NO_X**	**CO**	**SO_X**	**PM_{10} FD**	**PM_{10} EXH**	**PM_{10} Total**	**$PM_{2.5}$ FD**	**$PM_{2.5}$ EXH**	**$PM_{2.5}$ Total**	**CO_2**	**CH_4**	**N_2O**	**CO_2e**
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Concrete	1	1	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Drainage	4/1/2029	12/31/2029	6	235	10	2029	Concrete	4	4	0.1	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.6	0.00	0.00	0.6
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Concrete	31	31	0.1	0.00	0.03	0.02	0.00	0.10	0.00	0.10	0.01	0.00	0.01	3.1	0.00	0.00	3.3
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	2034	Concrete	7	7	0.1	0.00	0.03	0.02	0.00	0.13	0.00	0.13	0.01	0.00	0.01	4.0	0.00	0.00	4.2
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	2036	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	2036	Concrete	1	1	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete	1	1	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Drainage	4/1/2029	3/31/2030	6	312	10	2029	Concrete	4	4	0.1	0.00	0.01	0.00	0.00	0.03	0.00	0.03	0.00	0.00	0.00	0.8	0.00	0.00	0.8
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	2029	Concrete	18	18	0.1	0.00	0.02	0.01	0.00	0.08	0.00	0.08	0.01	0.00	0.01	2.4	0.00	0.00	2.5
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Concrete	5	5	0.1	0.00	0.02	0.02	0.00	0.10	0.00	0.10	0.01	0.00	0.01	2.9	0.00	0.00	3.0
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Concrete	1	1	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete	1	1	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Concrete	4	4	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Concrete	23	23	0.1	0.00	0.02	0.01	0.00	0.07	0.00	0.07	0.01	0.00	0.01	2.3	0.00	0.00	2.4
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Concrete	7	7	0.1	0.00	0.03	0.02	0.00	0.13	0.00	0.13	0.01	0.00	0.01	4.1	0.00	0.00	4.3
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Concrete	1	1	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete	1	1	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Concrete	4	4	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	2029	Concrete	16	16	0.1	0.00	0.03	0.02	0.00	0.10	0.00	0.10	0.01	0.00	0.01	3.2	0.00	0.00	3.4
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Concrete	11	11	0.1	0.00	0.05	0.04	0.00	0.22	0.00	0.22	0.02	0.00	0.02	6.6	0.00	0.00	6.9
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Concrete	1	1	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanowen St/Van Nuys Blvd TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Concrete	1	1	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.0
Vanowen St/Van Nuys Blvd TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnolia TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnolia TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Concrete	1	1	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.0
Magnolia TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Concrete	1	1	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.0
Mid Mountain Shaft TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Grading	2/1/2033	7/31/2033	5	129	8	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Drainage/Utilties	5/1/2033	10/31/2033	5	131	8	2033	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	2030	Concrete	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** Heavy Duty-Mix (50% MHDT/50% HHDT); **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 6

VENDOR TRUCKS (OFFSITE)

											Running Emission Factor (g/mile)[1,2]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Westside-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Concrete	1	2	20.0	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Segment 1-Westside-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Concrete	-	-	-	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Segment 1-Westside-Tunnel Boring/Tunneling	9/1/2031	10/31/2032	6	366	20	2031	Concrete	-	-	-	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Segment 1-Westside-TBM Retrieval/Tunnel Prep	11/1/2032	4/30/2033	6	156	20	2032	Concrete	-	-	-	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Segment 1-Westside-Annular Grouting	9/1/2031	10/31/2032	6	366	20	2031	Concrete	13	26	20.0	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Segment 1-Westside-Invert Construction	4/1/2034	7/31/2034	6	104	20	2034	Concrete	18	36	20.0	0.01	0.81	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1192.3	0.00	0.19
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	2033	Concrete	1	2	20.0	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Segment 1-Westside-Rail and Plinth	8/1/2034	1/31/2035	6	158	20	2034	Concrete	5	10	20.0	0.01	0.81	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1192.3	0.00	0.19
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Concrete	-	-	-	0.01	0.79	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1182.1	0.00	0.19
Segment 2-Mountain-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Concrete	-	-	20.0	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Segment 2-Mountain-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Concrete	-	-	-	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Segment 2-Mountain-Tunnel Boring/Tunneling	9/1/2031	1/31/2034	6	758	20	2031	Concrete	-	-	-	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Segment 2-Mountain-TBM Retrieval/Tunnel Prep	2/1/2034	7/31/2034	6	155	20	2034	Concrete	-	-	-	0.01	0.81	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1192.3	0.00	0.19
Segment 2-Mountain-Annular Grouting	9/1/2031	1/31/2034	6	758	20	2031	Concrete	12	24	20.0	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Segment 2-Mountain-Invert Construction	5/1/2035	2/28/2037	6	575	20	2035	Concrete	18	36	20.0	0.01	0.79	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1182.1	0.00	0.19
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	2034	Concrete	1	2	20.0	0.01	0.81	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1192.3	0.00	0.19
Segment 2-Mountain-Rail and Plinth	4/1/2036	3/31/2037	6	313	20	2036	Concrete	4	8	20.0	0.01	0.78	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1171.5	0.00	0.18
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	2036	Concrete	-	-	-	0.01	0.78	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1171.5	0.00	0.18
Segment 3-Valley-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Concrete	1	2	20.0	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Segment 3-Valley-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Concrete	-	-	-	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Segment 3-Valley-Tunnel Boring/Tunneling	9/1/2031	8/31/2032	6	314	20	2031	Concrete	12	24	-	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Segment 3-Valley-TBM Retrieval/Tunnel Prep	9/1/2032	2/28/2033	6	155	20	2032	Concrete	-	-	-	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Segment 3-Valley-Annular Grouting	9/1/2031	8/31/2032	6	314	20	2031	Concrete	13	26	20.0	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Segment 3-Valley-Invert Construction	4/1/2034	5/31/2035	6	365	20	2034	Concrete	18	36	20.0	0.01	0.81	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1192.3	0.00	0.19
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	2032	Concrete	1	2	20.0	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Segment 3-Valley-Rail and Plinth	8/1/2034	9/30/2035	6	365	20	2034	Concrete	3	6	20.0	0.01	0.81	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1192.3	0.00	0.19
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Concrete	-	-	-	0.01	0.79	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1182.1	0.00	0.19
Mid Mountain Shaft-Site Preparation/Demolition	11/1/2031	12/31/2031	6	52	10	2031	Concrete	3	6	20.0	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	2031	Concrete	-	-	20.0	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Mid Mountain Shaft-Drainage/Utilities	11/1/2031	12/31/2031	6	52	10	2031	Concrete	1	2	20.0	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Mid Mountain Shaft-Shaft Drilling	1/1/2032	12/31/2032	6	314	10	2032	Concrete	-	-	20.0	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Mid Mountain Shaft-Shaft Lining	1/1/2032	12/31/2032	6	314	10	2032	Concrete	-	-	20.0	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Mid Mountain Shaft-Cavern and Adit	1/1/2033	12/31/2033	6	313	10	2033	Concrete	-	-	20.0	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete	1	2	20.0	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	-	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Van Nuys Metrolink Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	-	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Van Nuys Metrolink Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Concrete	4	8	20.0	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Concrete	18	36	20.0	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Concrete	-	-	-	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Concrete	7	14	20.0	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Concrete	-	-	-	0.01	0.78	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1171.5	0.00	0.18
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Concrete	1	2	20.0	0.01	0.79	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1182.1	0.00	0.19
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete	1	2	20.0	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	-	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Metro G Line Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	-	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Metro G Line Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Concrete	4	8	20.0	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Concrete	19	38	20.0	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Concrete	-	-	-	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Concrete	9	18	20.0	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Concrete	-	-	-	0.01	0.78	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1171.5	0.00	0.18
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Concrete	1	2	20.0	0.01	0.79	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1182.1	0.00	0.19
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete	1	2	20.0	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	2029	Concrete	-	-	-	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Ventura Blvd Station-Grading	4/1/2029	7/31/2029	6	104	10	2029	Concrete	-	-	-	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Ventura Blvd Station-Drainage	4/1/2029	6/30/2030	6	390	10	2029	Concrete	4	8	20.0	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	2030	Concrete	21	42	20.0	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	2031	Concrete	-	-	-	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Concrete	7	14	20.0	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	2036	Concrete	-	-	-	0.01	0.78	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1171.5	0.00	0.18
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Concrete	1	2	20.0	0.01	0.79	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1182.1	0.00	0.19

Sepulveda Transit Corridor Project - ALTERNATIVE 6

VENDOR TRUCKS (OFFSITE)

											Non-Running Emission Factor (g/trip)[1,3]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Westside-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Concrete	1	2	20.0	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Segment 1-Westside-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Concrete	-	-	-	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Segment 1-Westside-Tunnel Boring/Tunneling	9/1/2031	10/31/2032	6	366	20	2031	Concrete	-	-	-	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Segment 1-Westside-TBM Retrieval/Tunnel Prep	11/1/2032	4/30/2033	6	156	20	2032	Concrete	-	-	-	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
Segment 1-Westside-Annular Grouting	9/1/2031	10/31/2032	6	366	20	2031	Concrete	13	26	20.0	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Segment 1-Westside-Invert Construction	4/1/2034	7/31/2034	6	104	20	2034	Concrete	18	36	20.0	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	2033	Concrete	1	2	20.0	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
Segment 1-Westside-Rail and Plinth	8/1/2034	1/31/2035	6	158	20	2034	Concrete	5	10	20.0	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Concrete	-	-	-	0.19	4.12	3.05	0.004	-	0.001	0.001	-	0.001	0.001	445.5	0.01	0.07
Segment 2-Mountain-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Concrete	-	-	20.0	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Segment 2-Mountain-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Concrete	-	-	-	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Segment 2-Mountain-Tunnel Boring/Tunneling	9/1/2031	1/31/2034	6	758	20	2031	Concrete	-	-	-	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Segment 2-Mountain-TBM Retrieval/Tunnel Prep	2/1/2034	7/31/2034	6	155	20	2034	Concrete	-	-	-	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
Segment 2-Mountain-Annular Grouting	9/1/2031	1/31/2034	6	758	20	2031	Concrete	12	24	20.0	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Segment 2-Mountain-Invert Construction	5/1/2035	2/28/2037	6	575	20	2035	Concrete	18	36	20.0	0.19	4.12	3.05	0.004	-	0.001	0.001	-	0.001	0.001	445.5	0.01	0.07
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	2034	Concrete	1	2	20.0	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
Segment 2-Mountain-Rail and Plinth	4/1/2036	3/31/2037	6	313	20	2036	Concrete	4	8	20.0	0.19	4.09	3.07	0.004	-	0.001	0.001	-	0.001	0.001	444.4	0.01	0.07
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	2036	Concrete	-	-	-	0.19	4.09	3.07	0.004	-	0.001	0.001	-	0.001	0.001	444.4	0.01	0.07
Segment 3-Valley-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Concrete	1	2	20.0	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Segment 3-Valley-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Concrete	-	-	-	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Segment 3-Valley-Tunnel Boring/Tunneling	9/1/2031	8/31/2032	6	314	20	2031	Concrete	12	24	-	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Segment 3-Valley-TBM Retrieval/Tunnel Prep	9/1/2032	2/28/2033	6	155	20	2032	Concrete	-	-	-	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
Segment 3-Valley-Annular Grouting	9/1/2031	8/31/2032	6	314	20	2031	Concrete	13	26	20.0	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Segment 3-Valley-Invert Construction	4/1/2034	5/31/2035	6	365	20	2034	Concrete	18	36	20.0	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	2032	Concrete	1	2	20.0	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
Segment 3-Valley-Rail and Plinth	8/1/2034	9/30/2035	6	365	20	2034	Concrete	3	6	20.0	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Concrete	-	-	-	0.19	4.12	3.05	0.004	-	0.001	0.001	-	0.001	0.001	445.5	0.01	0.07
Mid Mountain Shaft-Site Preparation/Demolition	11/1/2031	12/31/2031	6	52	10	2031	Concrete	3	6	20.0	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	2031	Concrete	-	-	20.0	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Mid Mountain Shaft-Drainage/Utilities	11/1/2031	12/31/2031	6	52	10	2031	Concrete	1	2	20.0	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Mid Mountain Shaft-Shaft Drilling	1/1/2032	12/31/2032	6	314	10	2032	Concrete	-	-	20.0	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
Mid Mountain Shaft-Shaft Lining	1/1/2032	12/31/2032	6	314	10	2032	Concrete	-	-	20.0	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
Mid Mountain Shaft-Cavern and Adit	1/1/2033	12/31/2033	6	313	10	2033	Concrete	-	-	20.0	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete	1	2	20.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	-	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Van Nuys Metrolink Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	-	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Van Nuys Metrolink Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Concrete	4	8	20.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Concrete	18	36	20.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Concrete	-	-	-	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Concrete	7	14	20.0	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Concrete	-	-	-	0.19	4.09	3.07	0.004	-	0.001	0.001	-	0.001	0.001	444.4	0.01	0.07
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Concrete	1	2	20.0	0.19	4.12	3.05	0.004	-	0.001	0.001	-	0.001	0.001	445.5	0.01	0.07
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete	1	2	20.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	-	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Metro G Line Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	-	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Metro G Line Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Concrete	4	8	20.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Concrete	19	38	20.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Concrete	-	-	-	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Concrete	9	18	20.0	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Concrete	-	-	-	0.19	4.09	3.07	0.004	-	0.001	0.001	-	0.001	0.001	444.4	0.01	0.07
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Concrete	1	2	20.0	0.19	4.12	3.05	0.004	-	0.001	0.001	-	0.001	0.001	445.5	0.01	0.07
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete	1	2	20.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	2029	Concrete	-	-	-	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Ventura Blvd Station-Grading	4/1/2029	7/31/2029	6	104	10	2029	Concrete	-	-	-	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Ventura Blvd Station-Drainage	4/1/2029	6/30/2030	6	390	10	2029	Concrete	4	8	20.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	2030	Concrete	21	42	20.0	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	2031	Concrete	-	-	-	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Concrete	7	14	20.0	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	2036	Concrete	-	-	-	0.19	4.09	3.07	0.004	-	0.001	0.001	-	0.001	0.001	444.4	0.01	0.07
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Concrete	1	2	20.0	0.19	4.12	3.05	0.004	-	0.001	0.001	-	0.001	0.001	445.5	0.01	0.07

Sepulveda Transit Corridor Project - ALTERNATIVE 6

VENDOR TRUCKS (OFFSITE)

											Daily Emissions (lb/day)												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Westside-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Concrete	1	2	20.0	0.00	0.09	0.02	0.00	0.03	0.00	0.04	0.01	0.00	0.01	110.3	0.00	0.02
Segment 1-Westside-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Tunnel Boring/Tunneling	9/1/2031	10/31/2032	6	366	20	2031	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-TBM Retrieval/Tunnel Prep	11/1/2032	4/30/2033	6	156	20	2032	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Annular Grouting	9/1/2031	10/31/2032	6	366	20	2031	Concrete	13	26	20.0	0.02	1.22	0.22	0.01	0.44	0.02	0.46	0.12	0.02	0.13	1433.7	0.00	0.23
Segment 1-Westside-Invert Construction	4/1/2034	7/31/2034	6	104	20	2034	Concrete	18	36	20.0	0.03	1.61	0.31	0.02	0.61	0.02	0.64	0.16	0.02	0.19	1928.1	0.00	0.30
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	2033	Concrete	1	2	20.0	0.00	0.09	0.02	0.00	0.03	0.00	0.04	0.01	0.00	0.01	108.1	0.00	0.02
Segment 1-Westside-Rail and Plinth	8/1/2034	1/31/2035	6	158	20	2034	Concrete	5	10	20.0	0.01	0.45	0.09	0.01	0.17	0.01	0.18	0.05	0.01	0.05	535.6	0.00	0.08
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Concrete	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Tunnel Boring/Tunneling	9/1/2031	1/31/2034	6	758	20	2031	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-TBM Retrieval/Tunnel Prep	2/1/2034	7/31/2034	6	155	20	2034	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Annular Grouting	9/1/2031	1/31/2034	6	758	20	2031	Concrete	12	24	20.0	0.02	1.13	0.21	0.01	0.41	0.02	0.42	0.11	0.02	0.12	1323.4	0.00	0.21
Segment 2-Mountain-Invert Construction	5/1/2035	2/28/2037	6	575	20	2035	Concrete	18	36	20.0	0.03	1.59	0.31	0.02	0.61	0.02	0.64	0.16	0.02	0.19	1911.7	0.00	0.30
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	2034	Concrete	1	2	20.0	0.00	0.09	0.02	0.00	0.03	0.00	0.04	0.01	0.00	0.01	107.1	0.00	0.02
Segment 2-Mountain-Rail and Plinth	4/1/2036	3/31/2037	6	313	20	2036	Concrete	4	8	20.0	0.01	0.35	0.07	0.00	0.14	0.01	0.14	0.04	0.01	0.04	421.1	0.00	0.07
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	2036	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Concrete	1	2	20.0	0.00	0.09	0.02	0.00	0.03	0.00	0.04	0.01	0.00	0.01	110.3	0.00	0.02
Segment 3-Valley-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Tunnel Boring/Tunneling	9/1/2031	8/31/2032	6	314	20	2031	Concrete	12	24	-	0.01	0.23	0.16	0.00	-	0.00	0.00	-	0.00	0.00	24.2	0.00	0.00
Segment 3-Valley-TBM Retrieval/Tunnel Prep	9/1/2032	2/28/2033	6	155	20	2032	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Annular Grouting	9/1/2031	8/31/2032	6	314	20	2031	Concrete	13	26	20.0	0.02	1.22	0.22	0.01	0.44	0.02	0.46	0.12	0.02	0.13	1433.7	0.00	0.23
Segment 3-Valley-Invert Construction	4/1/2034	5/31/2035	6	365	20	2034	Concrete	18	36	20.0	0.03	1.61	0.31	0.02	0.61	0.02	0.64	0.16	0.02	0.19	1928.1	0.00	0.30
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	2032	Concrete	1	2	20.0	0.00	0.09	0.02	0.00	0.03	0.00	0.04	0.01	0.00	0.01	109.2	0.00	0.02
Segment 3-Valley-Rail and Plinth	8/1/2034	9/30/2035	6	365	20	2034	Concrete	3	6	20.0	0.00	0.27	0.05	0.00	0.10	0.00	0.11	0.03	0.00	0.03	321.4	0.00	0.05
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Site Preparation/Demolition	11/1/2031	12/31/2031	6	52	10	2031	Concrete	3	6	20.0	0.00	0.28	0.05	0.00	0.10	0.00	0.11	0.03	0.00	0.03	330.9	0.00	0.05
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	2031	Concrete	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Drainage/Utilities	11/1/2031	12/31/2031	6	52	10	2031	Concrete	1	2	20.0	0.00	0.09	0.02	0.00	0.03	0.00	0.04	0.01	0.00	0.01	110.3	0.00	0.02
Mid Mountain Shaft-Shaft Drilling	1/1/2032	12/31/2032	6	314	10	2032	Concrete	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Shaft Lining	1/1/2032	12/31/2032	6	314	10	2032	Concrete	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Cavern and Adit	1/1/2033	12/31/2033	6	313	10	2033	Concrete	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete	1	2	20.0	0.00	0.10	0.02	0.00	0.03	0.00	0.04	0.01	0.00	0.01	112.7	0.00	0.02
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Concrete	4	8	20.0	0.01	0.39	0.07	0.00	0.14	0.01	0.14	0.04	0.01	0.04	450.6	0.00	0.07
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Concrete	18	36	20.0	0.03	1.76	0.31	0.02	0.61	0.02	0.64	0.16	0.02	0.19	2027.9	0.00	0.32
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Concrete	7	14	20.0	0.01	0.64	0.12	0.01	0.24	0.01	0.25	0.06	0.01	0.07	756.7	0.00	0.12
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Concrete	1	2	20.0	0.00	0.09	0.02	0.00	0.03	0.00	0.04	0.01	0.00	0.01	106.2	0.00	0.02
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete	1	2	20.0	0.00	0.10	0.02	0.00	0.03	0.00	0.04	0.01	0.00	0.01	112.7	0.00	0.02
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Concrete	4	8	20.0	0.01	0.39	0.07	0.00	0.14	0.01	0.14	0.04	0.01	0.04	450.6	0.00	0.07
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Concrete	19	38	20.0	0.03	1.86	0.33	0.02	0.64	0.03	0.67	0.17	0.02	0.20	2140.6	0.00	0.34
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Concrete	9	18	20.0	0.01	0.82	0.15	0.01	0.31	0.01	0.32	0.08	0.01	0.09	973.0	0.00	0.15
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Concrete	1	2	20.0	0.00	0.09	0.02	0.00	0.03	0.00	0.04	0.01	0.00	0.01	106.2	0.00	0.02
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete	1	2	20.0	0.00	0.10	0.02	0.00	0.03	0.00	0.04	0.01	0.00	0.01	112.7	0.00	0.02
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	2029	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Grading	4/1/2029	7/31/2029	6	104	10	2029	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Drainage	4/1/2029	6/30/2030	6	390	10	2029	Concrete	4	8	20.0	0.01	0.39	0.07	0.00	0.14	0.01	0.14	0.04	0.01	0.04	450.6	0.00	0.07
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	2030	Concrete	21	42	20.0	0.03	2.01	0.36	0.02	0.71	0.03	0.74	0.19	0.03	0.22	2340.8	0.00	0.37
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	2031	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Concrete	7	14	20.0	0.01	0.64	0.12	0.01	0.24	0.01	0.25	0.06	0.01	0.07	756.7	0.00	0.12
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	2036	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Concrete	1	2	20.0	0.00	0.09	0.02	0.00	0.03	0.00	0.04	0.01	0.00	0.01	106.2	0.00	0.02

Sepulveda Transit Corridor Project - ALTERNATIVE 6

VENDOR TRUCKS (OFFSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Total Emissions (tons)										Total Emissions (metric tons)			
											ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Segment 1-Westside-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Concrete	1	2	20.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.3	0.00	0.00	5.5
Segment 1-Westside-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Tunnel Boring/Tunneling	9/1/2031	10/31/2032	6	366	20	2031	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-TBM Retrieval/Tunnel Prep	11/1/2032	4/30/2033	6	156	20	2032	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 1-Westside-Annular Grouting	9/1/2031	10/31/2032	6	366	20	2031	Concrete	13	26	20.0	0.00	0.22	0.04	0.00	0.08	0.00	0.08	0.02	0.00	0.02	238.0	0.00	0.04	249.2
Segment 1-Westside-Invert Construction	4/1/2034	7/31/2034	6	104	20	2034	Concrete	18	36	20.0	0.00	0.08	0.02	0.00	0.03	0.00	0.03	0.01	0.00	0.01	91.0	0.00	0.01	95.2
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	2033	Concrete	1	2	20.0	0.00	0.01	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	15.3	0.00	0.00	16.0
Segment 1-Westside-Rail and Plinth	8/1/2034	1/31/2035	6	158	20	2034	Concrete	5	10	20.0	0.00	0.04	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38.4	0.00	0.01	40.2
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Concrete	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Tunnel Boring/Tunneling	9/1/2031	1/31/2034	6	758	20	2031	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-TBM Retrieval/Tunnel Prep	2/1/2034	7/31/2034	6	155	20	2034	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 2-Mountain-Annular Grouting	9/1/2031	1/31/2034	6	758	20	2031	Concrete	12	24	20.0	0.01	0.43	0.08	0.00	0.15	0.01	0.16	0.04	0.01	0.05	455.0	0.00	0.07	476.4
Segment 2-Mountain-Invert Construction	5/1/2035	2/28/2037	6	575	20	2035	Concrete	18	36	20.0	0.01	0.46	0.09	0.01	0.18	0.01	0.18	0.05	0.01	0.05	498.6	0.00	0.08	522.0
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	2034	Concrete	1	2	20.0	0.00	0.03	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.00	36.8	0.00	0.01	38.5
Segment 2-Mountain-Rail and Plinth	4/1/2036	3/31/2037	6	313	20	2036	Concrete	4	8	20.0	0.00	0.05	0.01	0.00	0.02	0.00	0.02	0.01	0.00	0.01	59.8	0.00	0.01	62.6
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	2036	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Concrete	1	2	20.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.3	0.00	0.00	5.5
Segment 3-Valley-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Tunnel Boring/Tunneling	9/1/2031	8/31/2032	6	314	20	2031	Concrete	12	24	-	0.00	0.04	0.02	0.00	-	0.00	0.00	-	0.00	0.00	3.4	0.00	0.00	3.6
Segment 3-Valley-TBM Retrieval/Tunnel Prep	9/1/2032	2/28/2033	6	155	20	2032	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Segment 3-Valley-Annular Grouting	9/1/2031	8/31/2032	6	314	20	2031	Concrete	13	26	20.0	0.00	0.19	0.04	0.00	0.07	0.00	0.07	0.02	0.00	0.02	204.2	0.00	0.03	213.8
Segment 3-Valley-Invert Construction	4/1/2034	5/31/2035	6	365	20	2034	Concrete	18	36	20.0	0.01	0.29	0.06	0.00	0.11	0.00	0.12	0.03	0.00	0.03	319.2	0.00	0.05	334.2
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	2032	Concrete	1	2	20.0	0.00	0.02	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	24.5	0.00	0.00	25.7
Segment 3-Valley-Rail and Plinth	8/1/2034	9/30/2035	6	365	20	2034	Concrete	3	6	20.0	0.00	0.05	0.01	0.00	0.02	0.00	0.02	0.00	0.00	0.01	53.2	0.00	0.01	55.7
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Site Preparation/Demolition	11/1/2031	12/31/2031	6	52	10	2031	Concrete	3	6	20.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.8	0.00	0.00	8.2
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	2031	Concrete	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Drainage/Utilities	11/1/2031	12/31/2031	6	52	10	2031	Concrete	1	2	20.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.6	0.00	0.00	2.7
Mid Mountain Shaft-Shaft Drilling	1/1/2032	12/31/2032	6	314	10	2032	Concrete	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Shaft Lining	1/1/2032	12/31/2032	6	314	10	2032	Concrete	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft-Cavern and Adit	1/1/2033	12/31/2033	6	313	10	2033	Concrete	-	-	20.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete	1	2	20.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.0	0.00	0.00	8.3
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Concrete	4	8	20.0	0.00	0.02	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	21.3	0.00	0.00	22.3
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Concrete	18	36	20.0	0.00	0.14	0.02	0.00	0.05	0.00	0.05	0.01	0.00	0.01	143.5	0.00	0.02	150.2
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Concrete	7	14	20.0	0.01	0.31	0.06	0.00	0.11	0.00	0.12	0.03	0.00	0.03	331.2	0.00	0.05	346.8
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Concrete	1	2	20.0	0.00	0.01	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	15.1	0.00	0.00	15.8
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete	1	2	20.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.0	0.00	0.00	8.3
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Concrete	4	8	20.0	0.00	0.02	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	21.3	0.00	0.00	22.3
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Concrete	19	38	20.0	0.00	0.14	0.03	0.00	0.05	0.00	0.05	0.01	0.00	0.02	151.5	0.00	0.02	158.6
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Concrete	9	18	20.0	0.01	0.38	0.07	0.00	0.14	0.01	0.15	0.04	0.01	0.04	414.8	0.00	0.07	434.3
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Concrete	1	2	20.0	0.00	0.01	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	15.1	0.00	0.00	15.8
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete	1	2	20.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.0	0.00	0.00	8.3
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	2029	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Grading	4/1/2029	7/31/2029	6	104	10	2029	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Drainage	4/1/2029	6/30/2030	6	390	10	2029	Concrete	4	8	20.0	0.00	0.08	0.01	0.00	0.03	0.00	0.03	0.01	0.00	0.01	79.7	0.00	0.01	83.5
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	2030	Concrete	21	42	20.0	0.00	0.16	0.03	0.00	0.06	0.00	0.06	0.01	0.00	0.02	167.8	0.00	0.03	175.6
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	2031	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Concrete	7	14	20.0	0.01	0.30	0.06	0.00	0.11	0.00	0.12	0.03	0.00	0.03	322.7	0.00	0.05	337.8
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	2036	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Concrete	1	2	20.0	0.00	0.01	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	15.1	0.00	0.00	15.8

Sepulveda Transit Corridor Project - ALTERNATIVE 6

VENDOR TRUCKS (OFFSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Running Emission Factor (g/mile)[1,2] ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Concrete	1	2	20.0	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	2029	Concrete	-	-	-	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
UCLA Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	-	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
UCLA Station-Drainage	4/1/2029	12/31/2029	6	235	10	2029	Concrete	4	8	20.0	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Concrete	31	62	20.0	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	2030	Concrete	-	-	-	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	2034	Concrete	7	14	20.0	0.01	0.81	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1192.3	0.00	0.19
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	2036	Concrete	-	-	-	0.01	0.78	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1171.5	0.00	0.18
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	2036	Concrete	1	2	20.0	0.01	0.78	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1171.5	0.00	0.18
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete	1	2	20.0	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	-	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Wilshire Blvd (Metro D Line) Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	-	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Wilshire Blvd (Metro D Line) Station-Drainage	4/1/2029	3/31/2030	6	312	10	2029	Concrete	4	8	20.0	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	2029	Concrete	18	36	20.0	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	2030	Concrete	-	-	-	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Concrete	5	10	20.0	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Concrete	-	-	-	0.01	0.78	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1171.5	0.00	0.18
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Concrete	1	2	20.0	0.01	0.79	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1182.1	0.00	0.19
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete	1	2	20.0	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	2029	Concrete	-	-	-	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Santa Monica Blvd Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	-	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Santa Monica Blvd Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Concrete	4	8	20.0	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Concrete	23	46	20.0	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Concrete	-	-	-	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Concrete	7	14	20.0	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Concrete	-	-	-	0.01	0.78	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1171.5	0.00	0.18
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Concrete	1	2	20.0	0.01	0.79	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1182.1	0.00	0.19
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete	1	2	20.0	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	-	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Metro E Line (Expo)/Bundy Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	-	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Metro E Line (Expo)/Bundy Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Concrete	4	8	20.0	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	2029	Concrete	16	32	20.0	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Concrete	-	-	-	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Concrete	11	22	20.0	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Concrete	-	-	-	0.01	0.78	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1171.5	0.00	0.18
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Concrete	1	2	20.0	0.01	0.79	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1182.1	0.00	0.19
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Concrete	-	-	-	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Vanowen St/Van Nuys Blvd TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Concrete	1	2	20.0	0.01	0.79	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1182.1	0.00	0.19
Vanowen St/Van Nuys Blvd TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Concrete	-	-	-	0.01	0.78	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1171.5	0.00	0.18
Magnolia TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Concrete	-	-	-	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Magnolia TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Concrete	1	2	20.0	0.01	0.79	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1182.1	0.00	0.19
Magnolia TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Concrete	-	-	-	0.01	0.78	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1171.5	0.00	0.18
Mid Mountain Shaft TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Concrete	-	-	-	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Mid Mountain Shaft TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Concrete	1	2	20.0	0.01	0.79	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1182.1	0.00	0.19
Mid Mountain Shaft TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Concrete	-	-	-	0.01	0.78	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1171.5	0.00	0.18
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	2033	Concrete	-	-	-	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
OMSF-Grading	2/1/2033	7/31/2033	5	129	8	2033	Concrete	-	-	-	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Concrete	-	-	-	0.01	0.81	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1192.3	0.00	0.19
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	2033	Concrete	-	-	-	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
OMSF-Drainage/Utilties	5/1/2033	10/31/2033	5	131	8	2033	Concrete	-	-	-	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	2030	Concrete	-	-	-	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate; **Fleet Mix:** Heavy Duty-Mix (50% MHDT/50% HHDT); **Fuel Type:** Diesel

2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.

3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 6

VENDOR TRUCKS (OFFSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Non-Running Emission Factor (g/trip)[1,3] ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Concrete	1	2	20.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	2029	Concrete	-	-	-	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
UCLA Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	-	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
UCLA Station-Drainage	4/1/2029	12/31/2029	6	235	10	2029	Concrete	4	8	20.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Concrete	31	62	20.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	2030	Concrete	-	-	-	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	2034	Concrete	7	14	20.0	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	2036	Concrete	-	-	-	0.19	4.09	3.07	0.004	-	0.001	0.001	-	0.001	0.001	444.4	0.01	0.07
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	2036	Concrete	1	2	20.0	0.19	4.09	3.07	0.004	-	0.001	0.001	-	0.001	0.001	444.4	0.01	0.07
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete	1	2	20.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	-	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Wilshire Blvd (Metro D Line) Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	-	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Wilshire Blvd (Metro D Line) Station-Drainage	4/1/2029	3/31/2030	6	312	10	2029	Concrete	4	8	20.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	2029	Concrete	18	36	20.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	2030	Concrete	-	-	-	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Concrete	5	10	20.0	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Concrete	-	-	-	0.19	4.09	3.07	0.004	-	0.001	0.001	-	0.001	0.001	444.4	0.01	0.07
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Concrete	1	2	20.0	0.19	4.12	3.05	0.004	-	0.001	0.001	-	0.001	0.001	445.5	0.01	0.07
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete	1	2	20.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	2029	Concrete	-	-	-	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Santa Monica Blvd Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	-	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Santa Monica Blvd Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Concrete	4	8	20.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Concrete	23	46	20.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Concrete	-	-	-	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Concrete	7	14	20.0	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Concrete	-	-	-	0.19	4.09	3.07	0.004	-	0.001	0.001	-	0.001	0.001	444.4	0.01	0.07
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Concrete	1	2	20.0	0.19	4.12	3.05	0.004	-	0.001	0.001	-	0.001	0.001	445.5	0.01	0.07
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete	1	2	20.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	-	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Metro E Line (Expo)/Bundy Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	-	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Metro E Line (Expo)/Bundy Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Concrete	4	8	20.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	2029	Concrete	16	32	20.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Concrete	-	-	-	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Concrete	11	22	20.0	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Concrete	-	-	-	0.19	4.09	3.07	0.004	-	0.001	0.001	-	0.001	0.001	444.4	0.01	0.07
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Concrete	1	2	20.0	0.19	4.12	3.05	0.004	-	0.001	0.001	-	0.001	0.001	445.5	0.01	0.07
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Concrete	-	-	-	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Vanowen St/Van Nuys Blvd TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Concrete	1	2	20.0	0.19	4.12	3.05	0.004	-	0.001	0.001	-	0.001	0.001	445.5	0.01	0.07
Vanowen St/Van Nuys Blvd TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Concrete	-	-	-	0.19	4.09	3.07	0.004	-	0.001	0.001	-	0.001	0.001	444.4	0.01	0.07
Magnolia TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Concrete	-	-	-	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Magnolia TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Concrete	1	2	20.0	0.19	4.12	3.05	0.004	-	0.001	0.001	-	0.001	0.001	445.5	0.01	0.07
Magnolia TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Concrete	-	-	-	0.19	4.09	3.07	0.004	-	0.001	0.001	-	0.001	0.001	444.4	0.01	0.07
Mid Mountain Shaft TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Concrete	-	-	-	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Mid Mountain Shaft TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Concrete	1	2	20.0	0.19	4.12	3.05	0.004	-	0.001	0.001	-	0.001	0.001	445.5	0.01	0.07
Mid Mountain Shaft TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Concrete	-	-	-	0.19	4.09	3.07	0.004	-	0.001	0.001	-	0.001	0.001	444.4	0.01	0.07
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	2033	Concrete	-	-	-	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
OMSF-Grading	2/1/2033	7/31/2033	5	129	8	2033	Concrete	-	-	-	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Concrete	-	-	-	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	2033	Concrete	-	-	-	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
OMSF-Drainage/Utilties	5/1/2033	10/31/2033	5	131	8	2033	Concrete	-	-	-	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	2030	Concrete	-	-	-	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate; **Fleet Mix:** Heavy Duty-Mix (50% MHDT/50% HHDT); **Fuel Type:** Diesel

2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.

3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 6

VENDOR TRUCKS (OFFSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Daily Emissions (lb/day)												
											ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Concrete	1	2	20.0	0.00	0.10	0.02	0.00	0.03	0.00	0.04	0.01	0.00	0.01	112.7	0.00	0.02
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	2029	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Drainage	4/1/2029	12/31/2029	6	235	10	2029	Concrete	4	8	20.0	0.01	0.39	0.07	0.00	0.14	0.01	0.14	0.04	0.01	0.04	450.6	0.00	0.07
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Concrete	31	62	20.0	0.05	3.03	0.54	0.03	1.05	0.04	1.09	0.28	0.04	0.32	3492.5	0.00	0.55
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	2030	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	2034	Concrete	7	14	20.0	0.01	0.63	0.12	0.01	0.24	0.01	0.25	0.06	0.01	0.07	749.8	0.00	0.12
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	2036	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	2036	Concrete	1	2	20.0	0.00	0.09	0.02	0.00	0.03	0.00	0.04	0.01	0.00	0.01	105.3	0.00	0.02
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete	1	2	20.0	0.00	0.10	0.02	0.00	0.03	0.00	0.04	0.01	0.00	0.01	112.7	0.00	0.02
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Drainage	4/1/2029	3/31/2030	6	312	10	2029	Concrete	4	8	20.0	0.01	0.39	0.07	0.00	0.14	0.01	0.14	0.04	0.01	0.04	450.6	0.00	0.07
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	2029	Concrete	18	36	20.0	0.03	1.76	0.31	0.02	0.61	0.02	0.64	0.16	0.02	0.19	2027.9	0.00	0.32
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	2030	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Concrete	5	10	20.0	0.01	0.45	0.09	0.01	0.17	0.01	0.18	0.05	0.01	0.05	540.5	0.00	0.09
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Concrete	1	2	20.0	0.00	0.09	0.02	0.00	0.03	0.00	0.04	0.01	0.00	0.01	106.2	0.00	0.02
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete	1	2	20.0	0.00	0.10	0.02	0.00	0.03	0.00	0.04	0.01	0.00	0.01	112.7	0.00	0.02
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	2029	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Concrete	4	8	20.0	0.01	0.39	0.07	0.00	0.14	0.01	0.14	0.04	0.01	0.04	450.6	0.00	0.07
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Concrete	23	46	20.0	0.04	2.25	0.40	0.02	0.78	0.03	0.81	0.21	0.03	0.24	2591.2	0.00	0.41
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Concrete	7	14	20.0	0.01	0.64	0.12	0.01	0.24	0.01	0.25	0.06	0.01	0.07	756.7	0.00	0.12
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Concrete	1	2	20.0	0.00	0.09	0.02	0.00	0.03	0.00	0.04	0.01	0.00	0.01	106.2	0.00	0.02
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete	1	2	20.0	0.00	0.10	0.02	0.00	0.03	0.00	0.04	0.01	0.00	0.01	112.7	0.00	0.02
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Concrete	4	8	20.0	0.01	0.39	0.07	0.00	0.14	0.01	0.14	0.04	0.01	0.04	450.6	0.00	0.07
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	2029	Concrete	16	32	20.0	0.03	1.56	0.28	0.02	0.54	0.02	0.56	0.14	0.02	0.17	1802.6	0.00	0.28
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Concrete	11	22	20.0	0.02	1.00	0.19	0.01	0.37	0.01	0.39	0.10	0.01	0.11	1189.2	0.00	0.19
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Concrete	1	2	20.0	0.00	0.09	0.02	0.00	0.03	0.00	0.04	0.01	0.00	0.01	106.2	0.00	0.02
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanowen St/Van Nuys Blvd TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Concrete	1	2	20.0	0.00	0.09	0.02	0.00	0.03	0.00	0.04	0.01	0.00	0.01	106.2	0.00	0.02
Vanowen St/Van Nuys Blvd TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnolia TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnolia TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Concrete	1	2	20.0	0.00	0.09	0.02	0.00	0.03	0.00	0.04	0.01	0.00	0.01	106.2	0.00	0.02
Magnolia TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Concrete	1	2	20.0	0.00	0.09	0.02	0.00	0.03	0.00	0.04	0.01	0.00	0.01	106.2	0.00	0.02
Mid Mountain Shaft TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	2033	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Grading	2/1/2033	7/31/2033	5	129	8	2033	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	2033	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Drainage/Utilties	5/1/2033	10/31/2033	5	131	8	2033	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	2030	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate; **Fleet Mix:** Heavy Duty-Mix (50% MHDT/50% HHDT); **Fuel Type:** Diesel

2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.

3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 6

VENDOR TRUCKS (OFFSITE)

											Total Emissions (tons)										Total Emissions (metric tons)			
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Concrete	1	2	20.0	0.00	0.02	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	24.0	0.00	0.00	25.1
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	2029	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Drainage	4/1/2029	12/31/2029	6	235	10	2029	Concrete	4	8	20.0	0.00	0.05	0.01	0.00	0.02	0.00	0.02	0.00	0.00	0.00	48.0	0.00	0.01	50.3
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Concrete	31	62	20.0	0.00	0.24	0.04	0.00	0.08	0.00	0.09	0.02	0.00	0.02	247.1	0.00	0.04	258.7
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	2030	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	2034	Concrete	7	14	20.0	0.01	0.29	0.06	0.00	0.11	0.00	0.12	0.03	0.00	0.03	319.4	0.00	0.05	334.4
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	2036	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	2036	Concrete	1	2	20.0	0.00	0.01	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	14.9	0.00	0.00	15.6
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete	1	2	20.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.0	0.00	0.00	8.3
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Drainage	4/1/2029	3/31/2030	6	312	10	2029	Concrete	4	8	20.0	0.00	0.06	0.01	0.00	0.02	0.00	0.02	0.01	0.00	0.01	63.8	0.00	0.01	66.8
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	2029	Concrete	18	36	20.0	0.00	0.18	0.03	0.00	0.06	0.00	0.07	0.02	0.00	0.02	192.2	0.00	0.03	201.3
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	2030	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Concrete	5	10	20.0	0.00	0.21	0.04	0.00	0.08	0.00	0.08	0.02	0.00	0.02	230.5	0.00	0.04	241.3
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Concrete	1	2	20.0	0.00	0.01	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	15.1	0.00	0.00	15.8
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete	1	2	20.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.0	0.00	0.00	8.3
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	2029	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Concrete	4	8	20.0	0.00	0.02	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	21.3	0.00	0.00	22.3
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Concrete	23	46	20.0	0.00	0.18	0.03	0.00	0.06	0.00	0.06	0.02	0.00	0.02	183.4	0.00	0.03	192.0
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Concrete	7	14	20.0	0.01	0.30	0.06	0.00	0.11	0.00	0.12	0.03	0.00	0.03	322.7	0.00	0.05	337.8
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Concrete	1	2	20.0	0.00	0.01	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	15.1	0.00	0.00	15.8
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Concrete	1	2	20.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.0	0.00	0.00	8.3
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Concrete	4	8	20.0	0.00	0.02	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	21.3	0.00	0.00	22.3
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	2029	Concrete	16	32	20.0	0.00	0.24	0.04	0.00	0.08	0.00	0.09	0.02	0.00	0.03	255.9	0.00	0.04	267.9
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Concrete	11	22	20.0	0.01	0.48	0.09	0.01	0.18	0.01	0.19	0.05	0.01	0.05	520.5	0.00	0.08	545.0
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Concrete	1	2	20.0	0.00	0.01	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	15.1	0.00	0.00	15.8
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanowen St/Van Nuys Blvd TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Concrete	1	2	20.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.1	0.00	0.00	2.2
Vanowen St/Van Nuys Blvd TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnolia TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnolia TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Concrete	1	2	20.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.1	0.00	0.00	2.2
Magnolia TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mid Mountain Shaft TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Concrete	1	2	20.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.1	0.00	0.00	2.2
Mid Mountain Shaft TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	2033	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Grading	2/1/2033	7/31/2033	5	129	8	2033	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	2033	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OMSF-Drainage/Utilties	5/1/2033	10/31/2033	5	131	8	2033	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	2030	Concrete	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate; **Fleet Mix:** Heavy Duty-Mix (50% MHDT/50% HHDT); **Fuel Type:** Diesel
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 6

WATER TRUCKS (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	Running Emission Factor (g/mile)[1,2,4] ROG	NO_x	CO	SO_x	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Westside-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Water	3	3	0.1	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Segment 1-Westside-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Water	3	3	0.1	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Segment 1-Westside-Tunnel Boring/Tunneling	9/1/2031	10/31/2032	6	366	20	2031	Water	3	3	0.1	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Segment 1-Westside-TBM Retrieval/Tunnel Prep	11/1/2032	4/30/2033	6	156	20	2032	Water	3	3	0.1	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Segment 1-Westside-Annular Grouting	9/1/2031	10/31/2032	6	366	20	2031	Water	3	3	0.1	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Segment 1-Westside-Invert Construction	4/1/2034	7/31/2034	6	104	20	2034	Water	3	3	0.1	0.02	2.78	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1655.8	0.00	0.26
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Segment 1-Westside-Rail and Plinth	8/1/2034	1/31/2035	6	158	20	2034	Water	3	3	0.1	0.02	2.78	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1655.8	0.00	0.26
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Water	3	3	0.1	0.02	2.76	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1639.3	0.00	0.26
Segment 2-Mountain-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Water	3	3	0.1	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Segment 2-Mountain-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Water	3	3	0.1	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Segment 2-Mountain-Tunnel Boring/Tunneling	9/1/2031	1/31/2034	6	758	20	2031	Water	3	3	0.1	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Segment 2-Mountain-TBM Retrieval/Tunnel Prep	2/1/2034	7/31/2034	6	155	20	2034	Water	3	3	0.1	0.02	2.78	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1655.8	0.00	0.26
Segment 2-Mountain-Annular Grouting	9/1/2031	1/31/2034	6	758	20	2031	Water	3	3	0.1	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Segment 2-Mountain-Invert Construction	5/1/2035	2/28/2037	6	575	20	2035	Water	3	3	0.1	0.02	2.76	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1639.3	0.00	0.26
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	2034	Water	3	3	0.1	0.02	2.78	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1655.8	0.00	0.26
Segment 2-Mountain-Rail and Plinth	4/1/2036	3/31/2037	6	313	20	2036	Water	3	3	0.1	0.02	2.73	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1623.6	0.00	0.26
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	2036	Water	3	3	0.1	0.02	2.73	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1623.6	0.00	0.26
Segment 3-Valley-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Water	3	3	0.1	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Segment 3-Valley-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Water	3	3	0.1	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Segment 3-Valley-Tunnel Boring/Tunneling	9/1/2031	8/31/2032	6	314	20	2031	Water	3	3	0.1	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Segment 3-Valley-TBM Retrieval/Tunnel Prep	9/1/2032	2/28/2033	6	155	20	2032	Water	3	3	0.1	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Segment 3-Valley-Annular Grouting	9/1/2031	8/31/2032	6	314	20	2031	Water	3	3	0.1	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Segment 3-Valley-Invert Construction	4/1/2034	5/31/2035	6	365	20	2034	Water	3	3	0.1	0.02	2.78	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1655.8	0.00	0.26
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	2032	Water	3	3	0.1	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Segment 3-Valley-Rail and Plinth	8/1/2034	9/30/2035	6	365	20	2034	Water	3	3	0.1	0.02	2.78	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1655.8	0.00	0.26
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Water	3	3	0.1	0.02	2.76	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1639.3	0.00	0.26
Mid Mountain Shaft-Site Preparation/Demolition	11/1/2031	12/31/2031	6	52	10	2031	Water	3	3	0.1	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	2031	Water	3	3	0.1	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Mid Mountain Shaft-Drainage/Utilities	11/1/2031	12/31/2031	6	52	10	2031	Water	3	3	0.1	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Mid Mountain Shaft-Shaft Drilling	1/1/2032	12/31/2032	6	314	10	2032	Water	3	3	0.1	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Mid Mountain Shaft-Shaft Lining	1/1/2032	12/31/2032	6	314	10	2032	Water	3	3	0.1	0.02	2.84	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1693.1	0.00	0.27
Mid Mountain Shaft-Cavern and Adit	1/1/2033	12/31/2033	6	313	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Van Nuys Metrolink Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Van Nuys Metrolink Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Water	3	3	0.1	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Water	3	3	0.1	0.02	2.73	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1623.6	0.00	0.26
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Water	3	3	0.1	0.02	2.76	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1639.3	0.00	0.26
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Metro G Line Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Metro G Line Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Water	3	3	0.1	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Water	3	3	0.1	0.02	2.73	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1623.6	0.00	0.26
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Water	3	3	0.1	0.02	2.76	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1639.3	0.00	0.26
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Ventura Blvd Station-Grading	4/1/2029	7/31/2029	6	104	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Ventura Blvd Station-Drainage	4/1/2029	6/30/2030	6	390	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	2030	Water	3	3	0.1	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	2031	Water	3	3	0.1	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	2036	Water	3	3	0.1	0.02	2.73	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1623.6	0.00	0.26
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Water	3	3	0.1	0.02	2.76	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1639.3	0.00	0.26

Sepulveda Transit Corridor Project - ALTERNATIVE 6

WATER TRUCKS (ONSITE)

											Non-Running Emission Factor (g/trip)[1,3]													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Westside-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Water	3	3	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Segment 1-Westside-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Water	3	3	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Segment 1-Westside-Tunnel Boring/Tunneling	9/1/2031	10/31/2032	6	366	20	2031	Water	3	3	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Segment 1-Westside-TBM Retrieval/Tunnel Prep	11/1/2032	4/30/2033	6	156	20	2032	Water	3	3	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
Segment 1-Westside-Annular Grouting	9/1/2031	10/31/2032	6	366	20	2031	Water	3	3	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Segment 1-Westside-Invert Construction	4/1/2034	7/31/2034	6	104	20	2034	Water	3	3	0.1	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	2033	Water	3	3	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
Segment 1-Westside-Rail and Plinth	8/1/2034	1/31/2035	6	158	20	2034	Water	3	3	0.1	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Water	3	3	0.1	0.19	4.12	3.05	0.004	-	0.001	0.001	-	0.001	0.001	445.5	0.01	0.07
Segment 2-Mountain-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Water	3	3	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Segment 2-Mountain-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Water	3	3	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Segment 2-Mountain-Tunnel Boring/Tunneling	9/1/2031	1/31/2034	6	758	20	2031	Water	3	3	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Segment 2-Mountain-TBM Retrieval/Tunnel Prep	2/1/2034	7/31/2034	6	155	20	2034	Water	3	3	0.1	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
Segment 2-Mountain-Annular Grouting	9/1/2031	1/31/2034	6	758	20	2031	Water	3	3	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Segment 2-Mountain-Invert Construction	5/1/2035	2/28/2037	6	575	20	2035	Water	3	3	0.1	0.19	4.12	3.05	0.004	-	0.001	0.001	-	0.001	0.001	445.5	0.01	0.07
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	2034	Water	3	3	0.1	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
Segment 2-Mountain-Rail and Plinth	4/1/2036	3/31/2037	6	313	20	2036	Water	3	3	0.1	0.19	4.09	3.07	0.004	-	0.001	0.001	-	0.001	0.001	444.4	0.01	0.07
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	2036	Water	3	3	0.1	0.19	4.09	3.07	0.004	-	0.001	0.001	-	0.001	0.001	444.4	0.01	0.07
Segment 3-Valley-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Water	3	3	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Segment 3-Valley-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Water	3	3	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Segment 3-Valley-Tunnel Boring/Tunneling	9/1/2031	8/31/2032	6	314	20	2031	Water	3	3	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Segment 3-Valley-TBM Retrieval/Tunnel Prep	9/1/2032	2/28/2033	6	155	20	2032	Water	3	3	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
Segment 3-Valley-Annular Grouting	9/1/2031	8/31/2032	6	314	20	2031	Water	3	3	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Segment 3-Valley-Invert Construction	4/1/2034	5/31/2035	6	365	20	2034	Water	3	3	0.1	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	2032	Water	3	3	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
Segment 3-Valley-Rail and Plinth	8/1/2034	9/30/2035	6	365	20	2034	Water	3	3	0.1	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Water	3	3	0.1	0.19	4.12	3.05	0.004	-	0.001	0.001	-	0.001	0.001	445.5	0.01	0.07
Mid Mountain Shaft-Site Preparation/Demolition	11/1/2031	12/31/2031	6	52	10	2031	Water	3	3	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	2031	Water	3	3	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Mid Mountain Shaft-Drainage/Utilities	11/1/2031	12/31/2031	6	52	10	2031	Water	3	3	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Mid Mountain Shaft-Shaft Drilling	1/1/2032	12/31/2032	6	314	10	2032	Water	3	3	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
Mid Mountain Shaft-Shaft Lining	1/1/2032	12/31/2032	6	314	10	2032	Water	3	3	0.1	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
Mid Mountain Shaft-Cavern and Adit	1/1/2033	12/31/2033	6	313	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Van Nuys Metrolink Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Van Nuys Metrolink Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Water	3	3	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Water	3	3	0.1	0.19	4.09	3.07	0.004	-	0.001	0.001	-	0.001	0.001	444.4	0.01	0.07
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Water	3	3	0.1	0.19	4.12	3.05	0.004	-	0.001	0.001	-	0.001	0.001	445.5	0.01	0.07
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Metro G Line Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Metro G Line Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Water	3	3	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Water	3	3	0.1	0.19	4.09	3.07	0.004	-	0.001	0.001	-	0.001	0.001	444.4	0.01	0.07
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Water	3	3	0.1	0.19	4.12	3.05	0.004	-	0.001	0.001	-	0.001	0.001	445.5	0.01	0.07
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Ventura Blvd Station-Grading	4/1/2029	7/31/2029	6	104	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Ventura Blvd Station-Drainage	4/1/2029	6/30/2030	6	390	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	2030	Water	3	3	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	2031	Water	3	3	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	2036	Water	3	3	0.1	0.19	4.09	3.07	0.004	-	0.001	0.001	-	0.001	0.001	444.4	0.01	0.07
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Water	3	3	0.1	0.19	4.12	3.05	0.004	-	0.001	0.001	-	0.001	0.001	445.5	0.01	0.07

Sepulveda Transit Corridor Project - ALTERNATIVE 6

WATER TRUCKS (ONSITE)

											Daily Emissions (lb/day)													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Westside-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00
Segment 1-Westside-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00
Segment 1-Westside-Tunnel Boring/Tunneling	9/1/2031	10/31/2032	6	366	20	2031	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00
Segment 1-Westside-TBM Retrieval/Tunnel Prep	11/1/2032	4/30/2033	6	156	20	2032	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Segment 1-Westside-Annular Grouting	9/1/2031	10/31/2032	6	366	20	2031	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00
Segment 1-Westside-Invert Construction	4/1/2034	7/31/2034	6	104	20	2034	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Segment 1-Westside-Rail and Plinth	8/1/2034	1/31/2035	6	158	20	2034	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.0	0.00	0.00
Segment 2-Mountain-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00
Segment 2-Mountain-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00
Segment 2-Mountain-Tunnel Boring/Tunneling	9/1/2031	1/31/2034	6	758	20	2031	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00
Segment 2-Mountain-TBM Retrieval/Tunnel Prep	2/1/2034	7/31/2034	6	155	20	2034	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Segment 2-Mountain-Annular Grouting	9/1/2031	1/31/2034	6	758	20	2031	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00
Segment 2-Mountain-Invert Construction	5/1/2035	2/28/2037	6	575	20	2035	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.0	0.00	0.00
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	2034	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Segment 2-Mountain-Rail and Plinth	4/1/2036	3/31/2037	6	313	20	2036	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.0	0.00	0.00
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	2036	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.0	0.00	0.00
Segment 3-Valley-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00
Segment 3-Valley-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00
Segment 3-Valley-Tunnel Boring/Tunneling	9/1/2031	8/31/2032	6	314	20	2031	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00
Segment 3-Valley-TBM Retrieval/Tunnel Prep	9/1/2032	2/28/2033	6	155	20	2032	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Segment 3-Valley-Annular Grouting	9/1/2031	8/31/2032	6	314	20	2031	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00
Segment 3-Valley-Invert Construction	4/1/2034	5/31/2035	6	365	20	2034	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	2032	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Segment 3-Valley-Rail and Plinth	8/1/2034	9/30/2035	6	365	20	2034	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.0	0.00	0.00
Mid Mountain Shaft-Site Preparation/Demolition	11/1/2031	12/31/2031	6	52	10	2031	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	2031	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00
Mid Mountain Shaft-Drainage/Utilities	11/1/2031	12/31/2031	6	52	10	2031	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00
Mid Mountain Shaft-Shaft Drilling	1/1/2032	12/31/2032	6	314	10	2032	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Mid Mountain Shaft-Shaft Lining	1/1/2032	12/31/2032	6	314	10	2032	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Mid Mountain Shaft-Cavern and Adit	1/1/2033	12/31/2033	6	313	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
Van Nuys Metrolink Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
Van Nuys Metrolink Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.0	0.00	0.00
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.0	0.00	0.00
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
Metro G Line Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
Metro G Line Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.0	0.00	0.00
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.0	0.00	0.00
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
Ventura Blvd Station-Grading	4/1/2029	7/31/2029	6	104	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
Ventura Blvd Station-Drainage	4/1/2029	6/30/2030	6	390	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	2030	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	2031	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	2036	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.0	0.00	0.00
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.0	0.00	0.00

Sepulveda Transit Corridor Project - ALTERNATIVE 6

WATER TRUCKS (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	Total Emissions (tons) ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	Total Emissions (metric tons) CO_2	CH_4	N_2O	CO_2e
Segment 1-Westside-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Segment 1-Westside-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Segment 1-Westside-Tunnel Boring/Tunneling	9/1/2031	10/31/2032	6	366	20	2031	Water	3	3	0.1	0.00	0.01	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.7	0.00	0.00	0.7
Segment 1-Westside-TBM Retrieval/Tunnel Prep	11/1/2032	4/30/2033	6	156	20	2032	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
Segment 1-Westside-Annular Grouting	9/1/2031	10/31/2032	6	366	20	2031	Water	3	3	0.1	0.00	0.01	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.7	0.00	0.00	0.7
Segment 1-Westside-Invert Construction	4/1/2034	7/31/2034	6	104	20	2034	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.6	0.00	0.00	0.6
Segment 1-Westside-Rail and Plinth	8/1/2034	1/31/2035	6	158	20	2034	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.6	0.00	0.00	0.6
Segment 2-Mountain-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Segment 2-Mountain-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Segment 2-Mountain-Tunnel Boring/Tunneling	9/1/2031	1/31/2034	6	758	20	2031	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.05	0.00	0.05	0.00	0.00	0.00	1.4	0.00	0.00	1.5
Segment 2-Mountain-TBM Retrieval/Tunnel Prep	2/1/2034	7/31/2034	6	155	20	2034	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
Segment 2-Mountain-Annular Grouting	9/1/2031	1/31/2034	6	758	20	2031	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.05	0.00	0.05	0.00	0.00	0.00	1.4	0.00	0.00	1.5
Segment 2-Mountain-Invert Construction	5/1/2035	2/28/2037	6	575	20	2035	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.03	0.00	0.04	0.00	0.00	0.00	1.1	0.00	0.00	1.1
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	2034	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.05	0.00	0.05	0.00	0.00	0.00	1.4	0.00	0.00	1.5
Segment 2-Mountain-Rail and Plinth	4/1/2036	3/31/2037	6	313	20	2036	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.6	0.00	0.00	0.6
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	2036	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.6	0.00	0.00	0.6
Segment 3-Valley-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Segment 3-Valley-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Segment 3-Valley-Tunnel Boring/Tunneling	9/1/2031	8/31/2032	6	314	20	2031	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.6	0.00	0.00	0.6
Segment 3-Valley-TBM Retrieval/Tunnel Prep	9/1/2032	2/28/2033	6	155	20	2032	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
Segment 3-Valley-Annular Grouting	9/1/2031	8/31/2032	6	314	20	2031	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.6	0.00	0.00	0.6
Segment 3-Valley-Invert Construction	4/1/2034	5/31/2035	6	365	20	2034	Water	3	3	0.1	0.00	0.01	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.7	0.00	0.00	0.7
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	2032	Water	3	3	0.1	0.00	0.01	0.00	0.00	0.03	0.00	0.03	0.00	0.00	0.00	0.9	0.00	0.00	1.0
Segment 3-Valley-Rail and Plinth	8/1/2034	9/30/2035	6	365	20	2034	Water	3	3	0.1	0.00	0.01	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.7	0.00	0.00	0.7
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.6	0.00	0.00	0.6
Mid Mountain Shaft-Site Preparation/Demolition	11/1/2031	12/31/2031	6	52	10	2031	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	2031	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
Mid Mountain Shaft-Drainage/Utilities	11/1/2031	12/31/2031	6	52	10	2031	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Mid Mountain Shaft-Shaft Drilling	1/1/2032	12/31/2032	6	314	10	2032	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.6	0.00	0.00	0.6
Mid Mountain Shaft-Shaft Lining	1/1/2032	12/31/2032	6	314	10	2032	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.6	0.00	0.00	0.6
Mid Mountain Shaft-Cavern and Adit	1/1/2033	12/31/2033	6	313	10	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.6	0.00	0.00	0.6
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Van Nuys Metrolink Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Van Nuys Metrolink Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.5	0.00	0.00	0.5
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.06	0.00	0.06	0.01	0.00	0.01	1.8	0.00	0.00	1.9
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.6	0.00	0.00	0.6
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Metro G Line Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Metro G Line Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.5	0.00	0.00	0.5
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.06	0.00	0.06	0.01	0.00	0.01	1.7	0.00	0.00	1.8
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.6	0.00	0.00	0.6
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	2029	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Ventura Blvd Station-Grading	4/1/2029	7/31/2029	6	104	10	2029	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Ventura Blvd Station-Drainage	4/1/2029	6/30/2030	6	390	10	2029	Water	3	3	0.1	0.00	0.01	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.8	0.00	0.00	0.8
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	2030	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	2031	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.5
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.06	0.00	0.06	0.01	0.00	0.01	1.7	0.00	0.00	1.8
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	2036	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.6	0.00	0.00	0.6

Sepulveda Transit Corridor Project - ALTERNATIVE 6

WATER TRUCKS (ONSITE)

											Running Emission Factor (g/mile)[1,2,4]													
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
UCLA Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
UCLA Station-Drainage	4/1/2029	12/31/2029	6	235	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	2030	Water	3	3	0.1	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	2034	Water	3	3	0.1	0.02	2.78	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1655.8	0.00	0.26
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	2036	Water	3	3	0.1	0.02	2.73	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1623.6	0.00	0.26
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	2036	Water	3	3	0.1	0.02	2.73	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1623.6	0.00	0.26
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Wilshire Blvd (Metro D Line) Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Wilshire Blvd (Metro D Line) Station-Drainage	4/1/2029	3/31/2030	6	312	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	2030	Water	3	3	0.1	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Water	3	3	0.1	0.02	2.73	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1623.6	0.00	0.26
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Water	3	3	0.1	0.02	2.76	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1639.3	0.00	0.26
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Santa Monica Blvd Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Santa Monica Blvd Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Water	3	3	0.1	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Water	3	3	0.1	0.02	2.73	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1623.6	0.00	0.26
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Water	3	3	0.1	0.02	2.76	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1639.3	0.00	0.26
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Metro E Line (Expo)/Bundy Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Metro E Line (Expo)/Bundy Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	2029	Water	3	3	0.1	0.02	2.93	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1757.8	0.00	0.28
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Water	3	3	0.1	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Water	3	3	0.1	0.02	2.73	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1623.6	0.00	0.26
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Water	3	3	0.1	0.02	2.76	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1639.3	0.00	0.26
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Water	3	3	0.1	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Vanowen St/Van Nuys Blvd TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Water	3	3	0.1	0.02	2.76	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1639.3	0.00	0.26
Vanowen St/Van Nuys Blvd TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Water	3	3	0.1	0.02	2.73	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1623.6	0.00	0.26
Magnolia TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Water	3	3	0.1	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Magnolia TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Water	3	3	0.1	0.02	2.76	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1639.3	0.00	0.26
Magnolia TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Water	3	3	0.1	0.02	2.73	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1623.6	0.00	0.26
Mid Mountain Shaft TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Water	3	3	0.1	0.02	2.86	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1713.6	0.00	0.27
Mid Mountain Shaft TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Water	3	3	0.1	0.02	2.76	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1639.3	0.00	0.26
Mid Mountain Shaft TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Water	3	3	0.1	0.02	2.73	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1623.6	0.00	0.26
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
OMSF-Grading	2/1/2033	7/31/2033	5	129	8	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Water	3	3	0.1	0.02	2.78	0.21	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1655.8	0.00	0.26
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
OMSF-Drainage/Utilties	5/1/2033	10/31/2033	5	131	8	2033	Water	3	3	0.1	0.02	2.81	0.22	0.02	184.05	0.00	184.06	18.37	0.00	18.38	1673.7	0.00	0.26
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	2030	Water	3	3	0.1	0.02	2.89	0.23	0.02	184.05	0.00	184.06	18.37	0.00	18.37	1735.3	0.00	0.27

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** Heavy Duty-Mix (50% MHDT/50% HHDT); **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 6

WATER TRUCKS (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	Non-Running Emission Factor (g/trip)[1,3] ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
UCLA Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
UCLA Station-Drainage	4/1/2029	12/31/2029	6	235	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	2030	Water	3	3	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	2034	Water	3	3	0.1	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	2036	Water	3	3	0.1	0.19	4.09	3.07	0.004	-	0.001	0.001	-	0.001	0.001	444.4	0.01	0.07
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	2036	Water	3	3	0.1	0.19	4.09	3.07	0.004	-	0.001	0.001	-	0.001	0.001	444.4	0.01	0.07
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Wilshire Blvd (Metro D Line) Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Wilshire Blvd (Metro D Line) Station-Drainage	4/1/2029	3/31/2030	6	312	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	2030	Water	3	3	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Water	3	3	0.1	0.19	4.09	3.07	0.004	-	0.001	0.001	-	0.001	0.001	444.4	0.01	0.07
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Water	3	3	0.1	0.19	4.12	3.05	0.004	-	0.001	0.001	-	0.001	0.001	445.5	0.01	0.07
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Santa Monica Blvd Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Santa Monica Blvd Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Water	3	3	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Water	3	3	0.1	0.19	4.09	3.07	0.004	-	0.001	0.001	-	0.001	0.001	444.4	0.01	0.07
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Water	3	3	0.1	0.19	4.12	3.05	0.004	-	0.001	0.001	-	0.001	0.001	445.5	0.01	0.07
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Metro E Line (Expo)/Bundy Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Metro E Line (Expo)/Bundy Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	2029	Water	3	3	0.1	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Water	3	3	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Water	3	3	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Water	3	3	0.1	0.19	4.09	3.07	0.004	-	0.001	0.001	-	0.001	0.001	444.4	0.01	0.07
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Water	3	3	0.1	0.19	4.12	3.05	0.004	-	0.001	0.001	-	0.001	0.001	445.5	0.01	0.07
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Water	3	3	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Vanowen St/Van Nuys Blvd TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Water	3	3	0.1	0.19	4.12	3.05	0.004	-	0.001	0.001	-	0.001	0.001	445.5	0.01	0.07
Vanowen St/Van Nuys Blvd TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Water	3	3	0.1	0.19	4.09	3.07	0.004	-	0.001	0.001	-	0.001	0.001	444.4	0.01	0.07
Magnolia TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Water	3	3	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Magnolia TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Water	3	3	0.1	0.19	4.12	3.05	0.004	-	0.001	0.001	-	0.001	0.001	445.5	0.01	0.07
Magnolia TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Water	3	3	0.1	0.19	4.09	3.07	0.004	-	0.001	0.001	-	0.001	0.001	444.4	0.01	0.07
Mid Mountain Shaft TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Water	3	3	0.1	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Mid Mountain Shaft TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Water	3	3	0.1	0.19	4.12	3.05	0.004	-	0.001	0.001	-	0.001	0.001	445.5	0.01	0.07
Mid Mountain Shaft TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Water	3	3	0.1	0.19	4.09	3.07	0.004	-	0.001	0.001	-	0.001	0.001	444.4	0.01	0.07
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	2033	Water	3	3	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
OMSF-Grading	2/1/2033	7/31/2033	5	129	8	2033	Water	3	3	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Water	3	3	0.1	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	2033	Water	3	3	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
OMSF-Drainage/Utilties	5/1/2033	10/31/2033	5	131	8	2033	Water	3	3	0.1	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	2030	Water	3	3	0.1	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** Heavy Duty-Mix (50% MHDT/50% HHDT); **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 6

WATER TRUCKS (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	Daily Emissions (lb/day)													
											ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
UCLA Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
UCLA Station-Drainage	4/1/2029	12/31/2029	6	235	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	2030	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	2034	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	2036	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.0	0.00	0.00
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	2036	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.0	0.00	0.00
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
Wilshire Blvd (Metro D Line) Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
Wilshire Blvd (Metro D Line) Station-Drainage	4/1/2029	3/31/2030	6	312	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	2030	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.0	0.00	0.00
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.0	0.00	0.00
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
Santa Monica Blvd Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
Santa Monica Blvd Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.0	0.00	0.00
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.0	0.00	0.00
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
Metro E Line (Expo)/Bundy Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
Metro E Line (Expo)/Bundy Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	2029	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.3	0.00	0.00
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.0	0.00	0.00
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.0	0.00	0.00
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00
Vanowen St/Van Nuys Blvd TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.0	0.00	0.00
Vanowen St/Van Nuys Blvd TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.0	0.00	0.00
Magnolia TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00
Magnolia TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.0	0.00	0.00
Magnolia TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.0	0.00	0.00
Mid Mountain Shaft TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00
Mid Mountain Shaft TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.0	0.00	0.00
Mid Mountain Shaft TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.0	0.00	0.00
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
OMSF-Grading	2/1/2033	7/31/2033	5	129	8	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
OMSF-Drainage/Utilties	5/1/2033	10/31/2033	5	131	8	2033	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.1	0.00	0.00
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	2030	Water	3	3	0.1	0.00	0.03	0.02	0.00	0.12	0.00	0.12	0.01	0.00	0.01	4.2	0.00	0.00

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** Heavy Duty-Mix (50% MHDT/50% HHDT); **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 6

WATER TRUCKS (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Daily Onsite Trips	One-Way Trip Length (mi)	Total Emissions (tons)										Total Emissions (metric tons)			
											ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Water	3	3	0.1	0.00	0.01	0.00	0.00	0.03	0.00	0.03	0.00	0.00	0.00	0.9	0.00	0.00	0.9
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	2029	Water	3	3	0.1	0.00	0.01	0.00	0.00	0.03	0.00	0.03	0.00	0.00	0.00	0.9	0.00	0.00	0.9
UCLA Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.2	0.00	0.00	0.2
UCLA Station-Drainage	4/1/2029	12/31/2029	6	235	10	2029	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.5	0.00	0.00	0.5
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	2030	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.6	0.00	0.00	0.6
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	2034	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.06	0.00	0.06	0.01	0.00	0.01	1.7	0.00	0.00	1.8
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	2036	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	2036	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.6	0.00	0.00	0.6
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Wilshire Blvd (Metro D Line) Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Wilshire Blvd (Metro D Line) Station-Drainage	4/1/2029	3/31/2030	6	312	10	2029	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.6	0.00	0.00	0.6
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	2029	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.4	0.00	0.00	0.4
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	2030	Water	3	3	0.1	0.00	0.01	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.7	0.00	0.00	0.8
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.06	0.00	0.06	0.01	0.00	0.01	1.7	0.00	0.00	1.8
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.6	0.00	0.00	0.6
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	2029	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
Santa Monica Blvd Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Santa Monica Blvd Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.5	0.00	0.00	0.5
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.06	0.00	0.06	0.01	0.00	0.01	1.7	0.00	0.00	1.8
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.6	0.00	0.00	0.6
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.3	0.00	0.00	0.3
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Metro E Line (Expo)/Bundy Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Metro E Line (Expo)/Bundy Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	2029	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.6	0.00	0.00	0.6
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.5	0.00	0.00	0.5
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Water	3	3	0.1	0.00	0.01	0.01	0.00	0.06	0.00	0.06	0.01	0.00	0.01	1.8	0.00	0.00	1.9
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.2
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.6	0.00	0.00	0.6
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Vanowen St/Van Nuys Blvd TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Vanowen St/Van Nuys Blvd TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.0
Magnolia TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Magnolia TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Magnolia TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.0
Mid Mountain Shaft TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Mid Mountain Shaft TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1	0.00	0.00	0.1
Mid Mountain Shaft TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.0
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.3
OMSF-Grading	2/1/2033	7/31/2033	5	129	8	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.3
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Water	3	3	0.1	0.00	0.01	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.6	0.00	0.00	0.7
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.3
OMSF-Drainage/Utilties	5/1/2033	10/31/2033	5	131	8	2033	Water	3	3	0.1	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.2	0.00	0.00	0.3
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	2030	Water	3	3	0.1	0.00	0.02	0.01	0.00	0.08	0.00	0.08	0.01	0.00	0.01	2.4	0.00	0.00	2.5

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** All Speeds; **Fleet Mix:** Heavy Duty-Mix (50% MHDT/50% HHDT); **Fuel Type:** Diesel; **Onsite Speed:** 15 MPH.
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from unpaved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
4. PM emission factors account for dust control reduction from water application to unpaved roads 2 times per day.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 6

WATER TRUCKS (OFFSITE)

											Running Emission Factor (g/mile)[1,2,4]												
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Westside-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Water	3	6	2.0	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Segment 1-Westside-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Water	3	6	2.0	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Segment 1-Westside-Tunnel Boring/Tunneling	9/1/2031	10/31/2032	6	366	20	2031	Water	3	6	2.0	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Segment 1-Westside-TBM Retrieval/Tunnel Prep	11/1/2032	4/30/2033	6	156	20	2032	Water	3	6	2.0	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Segment 1-Westside-Annular Grouting	9/1/2031	10/31/2032	6	366	20	2031	Water	3	6	2.0	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Segment 1-Westside-Invert Construction	4/1/2034	7/31/2034	6	104	20	2034	Water	3	6	2.0	0.01	0.81	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1192.3	0.00	0.19
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	2033	Water	3	6	2.0	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Segment 1-Westside-Rail and Plinth	8/1/2034	1/31/2035	6	158	20	2034	Water	3	6	2.0	0.01	0.81	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1192.3	0.00	0.19
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Water	3	6	2.0	0.01	0.79	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1182.1	0.00	0.19
Segment 2-Mountain-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Water	3	6	2.0	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Segment 2-Mountain-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Water	3	6	2.0	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Segment 2-Mountain-Tunnel Boring/Tunneling	9/1/2031	1/31/2034	6	758	20	2031	Water	3	6	2.0	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Segment 2-Mountain-TBM Retrieval/Tunnel Prep	2/1/2034	7/31/2034	6	155	20	2034	Water	3	6	2.0	0.01	0.81	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1192.3	0.00	0.19
Segment 2-Mountain-Annular Grouting	9/1/2031	1/31/2034	6	758	20	2031	Water	3	6	2.0	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Segment 2-Mountain-Invert Construction	5/1/2035	2/28/2037	6	575	20	2035	Water	3	6	2.0	0.01	0.79	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1182.1	0.00	0.19
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	2034	Water	3	6	2.0	0.01	0.81	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1192.3	0.00	0.19
Segment 2-Mountain-Rail and Plinth	4/1/2036	3/31/2037	6	313	20	2036	Water	3	6	2.0	0.01	0.78	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1171.5	0.00	0.18
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	2036	Water	3	6	2.0	0.01	0.78	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1171.5	0.00	0.18
Segment 3-Valley-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Water	3	6	2.0	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Segment 3-Valley-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Water	3	6	2.0	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Segment 3-Valley-Tunnel Boring/Tunneling	9/1/2031	8/31/2032	6	314	20	2031	Water	3	6	2.0	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Segment 3-Valley-TBM Retrieval/Tunnel Prep	9/1/2032	2/28/2033	6	155	20	2032	Water	3	6	2.0	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Segment 3-Valley-Annular Grouting	9/1/2031	8/31/2032	6	314	20	2031	Water	3	6	2.0	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Segment 3-Valley-Invert Construction	4/1/2034	5/31/2035	6	365	20	2034	Water	3	6	2.0	0.01	0.81	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1192.3	0.00	0.19
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	2032	Water	3	6	2.0	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Segment 3-Valley-Rail and Plinth	8/1/2034	9/30/2035	6	365	20	2034	Water	3	6	2.0	0.01	0.81	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1192.3	0.00	0.19
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Water	3	6	2.0	0.01	0.79	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1182.1	0.00	0.19
Mid Mountain Shaft-Site Preparation/Demolition	11/1/2031	12/31/2031	6	52	10	2031	Water	3	6	20.0	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	2031	Water	3	6	20.0	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Mid Mountain Shaft-Drainage/Utilities	11/1/2031	12/31/2031	6	52	10	2031	Water	3	6	20.0	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Mid Mountain Shaft-Shaft Drilling	1/1/2032	12/31/2032	6	314	10	2032	Water	3	6	20.0	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Mid Mountain Shaft-Shaft Lining	1/1/2032	12/31/2032	6	314	10	2032	Water	3	6	20.0	0.01	0.84	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1215.1	0.00	0.19
Mid Mountain Shaft-Cavern and Adit	1/1/2033	12/31/2033	6	313	10	2033	Water	3	6	20.0	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Water	3	6	2.0	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Water	3	6	2.0	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Van Nuys Metrolink Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Water	3	6	2.0	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Van Nuys Metrolink Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Water	3	6	2.0	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Water	3	6	2.0	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Water	3	6	2.0	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Water	3	6	2.0	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Water	3	6	2.0	0.01	0.78	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1171.5	0.00	0.18
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Water	3	6	2.0	0.01	0.79	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1182.1	0.00	0.19
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Water	3	6	2.0	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Water	3	6	2.0	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Metro G Line Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Water	3	6	2.0	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Metro G Line Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Water	3	6	2.0	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Water	3	6	2.0	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Water	3	6	2.0	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Water	3	6	2.0	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Water	3	6	2.0	0.01	0.78	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1171.5	0.00	0.18
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Water	3	6	2.0	0.01	0.79	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1182.1	0.00	0.19
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Water	3	6	2.0	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	2029	Water	3	6	2.0	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Ventura Blvd Station-Grading	4/1/2029	7/31/2029	6	104	10	2029	Water	3	6	2.0	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Ventura Blvd Station-Drainage	4/1/2029	6/30/2030	6	390	10	2029	Water	3	6	2.0	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	2030	Water	3	6	2.0	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	2031	Water	3	6	2.0	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Water	3	6	2.0	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	2036	Water	3	6	2.0	0.01	0.78	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1171.5	0.00	0.18
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Water	3	6	2.0	0.01	0.79	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1182.1	0.00	0.19

Sepulveda Transit Corridor Project - ALTERNATIVE 6

WATER TRUCKS (OFFSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Non-Running Emission Factor (g/trip)[1,3]												
											ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Westside-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Water	3	6	2.0	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Segment 1-Westside-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Water	3	6	2.0	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Segment 1-Westside-Tunnel Boring/Tunneling	9/1/2031	10/31/2032	6	366	20	2031	Water	3	6	2.0	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Segment 1-Westside-TBM Retrieval/Tunnel Prep	11/1/2032	4/30/2033	6	156	20	2032	Water	3	6	2.0	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
Segment 1-Westside-Annular Grouting	9/1/2031	10/31/2032	6	366	20	2031	Water	3	6	2.0	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Segment 1-Westside-Invert Construction	4/1/2034	7/31/2034	6	104	20	2034	Water	3	6	2.0	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	2033	Water	3	6	2.0	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
Segment 1-Westside-Rail and Plinth	8/1/2034	1/31/2035	6	158	20	2034	Water	3	6	2.0	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Water	3	6	2.0	0.19	4.12	3.05	0.004	-	0.001	0.001	-	0.001	0.001	445.5	0.01	0.07
Segment 2-Mountain-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Water	3	6	2.0	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Segment 2-Mountain-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Water	3	6	2.0	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Segment 2-Mountain-Tunnel Boring/Tunneling	9/1/2031	1/31/2034	6	758	20	2031	Water	3	6	2.0	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Segment 2-Mountain-TBM Retrieval/Tunnel Prep	2/1/2034	7/31/2034	6	155	20	2034	Water	3	6	2.0	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
Segment 2-Mountain-Annular Grouting	9/1/2031	1/31/2034	6	758	20	2031	Water	3	6	2.0	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Segment 2-Mountain-Invert Construction	5/1/2035	2/28/2037	6	575	20	2035	Water	3	6	2.0	0.19	4.12	3.05	0.004	-	0.001	0.001	-	0.001	0.001	445.5	0.01	0.07
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	2034	Water	3	6	2.0	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
Segment 2-Mountain-Rail and Plinth	4/1/2036	3/31/2037	6	313	20	2036	Water	3	6	2.0	0.19	4.09	3.07	0.004	-	0.001	0.001	-	0.001	0.001	444.4	0.01	0.07
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	2036	Water	3	6	2.0	0.19	4.09	3.07	0.004	-	0.001	0.001	-	0.001	0.001	444.4	0.01	0.07
Segment 3-Valley-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Water	3	6	2.0	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Segment 3-Valley-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Water	3	6	2.0	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Segment 3-Valley-Tunnel Boring/Tunneling	9/1/2031	8/31/2032	6	314	20	2031	Water	3	6	2.0	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Segment 3-Valley-TBM Retrieval/Tunnel Prep	9/1/2032	2/28/2033	6	155	20	2032	Water	3	6	2.0	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
Segment 3-Valley-Annular Grouting	9/1/2031	8/31/2032	6	314	20	2031	Water	3	6	2.0	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Segment 3-Valley-Invert Construction	4/1/2034	5/31/2035	6	365	20	2034	Water	3	6	2.0	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	2032	Water	3	6	2.0	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
Segment 3-Valley-Rail and Plinth	8/1/2034	9/30/2035	6	365	20	2034	Water	3	6	2.0	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Water	3	6	2.0	0.19	4.12	3.05	0.004	-	0.001	0.001	-	0.001	0.001	445.5	0.01	0.07
Mid Mountain Shaft-Site Preparation/Demolition	11/1/2031	12/31/2031	6	52	10	2031	Water	3	6	20.0	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	2031	Water	3	6	20.0	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Mid Mountain Shaft-Drainage/Utilities	11/1/2031	12/31/2031	6	52	10	2031	Water	3	6	20.0	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Mid Mountain Shaft-Shaft Drilling	1/1/2032	12/31/2032	6	314	10	2032	Water	3	6	20.0	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
Mid Mountain Shaft-Shaft Lining	1/1/2032	12/31/2032	6	314	10	2032	Water	3	6	20.0	0.19	4.23	3.01	0.004	-	0.001	0.001	-	0.001	0.001	453.6	0.01	0.07
Mid Mountain Shaft-Cavern and Adit	1/1/2033	12/31/2033	6	313	10	2033	Water	3	6	20.0	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Water	3	6	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Water	3	6	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Van Nuys Metrolink Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Water	3	6	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Van Nuys Metrolink Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Water	3	6	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Water	3	6	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Water	3	6	2.0	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Water	3	6	2.0	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Water	3	6	2.0	0.19	4.09	3.07	0.004	-	0.001	0.001	-	0.001	0.001	444.4	0.01	0.07
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Water	3	6	2.0	0.19	4.12	3.05	0.004	-	0.001	0.001	-	0.001	0.001	445.5	0.01	0.07
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Water	3	6	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Water	3	6	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Metro G Line Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Water	3	6	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Metro G Line Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Water	3	6	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Water	3	6	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Water	3	6	2.0	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Water	3	6	2.0	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Water	3	6	2.0	0.19	4.09	3.07	0.004	-	0.001	0.001	-	0.001	0.001	444.4	0.01	0.07
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Water	3	6	2.0	0.19	4.12	3.05	0.004	-	0.001	0.001	-	0.001	0.001	445.5	0.01	0.07
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Water	3	6	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	2029	Water	3	6	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Ventura Blvd Station-Grading	4/1/2029	7/31/2029	6	104	10	2029	Water	3	6	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Ventura Blvd Station-Drainage	4/1/2029	6/30/2030	6	390	10	2029	Water	3	6	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	2030	Water	3	6	2.0	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	2031	Water	3	6	2.0	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Water	3	6	2.0	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	2036	Water	3	6	2.0	0.19	4.09	3.07	0.004	-	0.001	0.001	-	0.001	0.001	444.4	0.01	0.07
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Water	3	6	2.0	0.19	4.12	3.05	0.004	-	0.001	0.001	-	0.001	0.001	445.5	0.01	0.07

Sepulveda Transit Corridor Project - ALTERNATIVE 6

WATER TRUCKS (OFFSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Daily Emissions (lb/day)												
											ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Segment 1-Westside-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38.5	0.00	0.01
Segment 1-Westside-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38.5	0.00	0.01
Segment 1-Westside-Tunnel Boring/Tunneling	9/1/2031	10/31/2032	6	366	20	2031	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38.5	0.00	0.01
Segment 1-Westside-TBM Retrieval/Tunnel Prep	11/1/2032	4/30/2033	6	156	20	2032	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38.1	0.00	0.01
Segment 1-Westside-Annular Grouting	9/1/2031	10/31/2032	6	366	20	2031	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38.5	0.00	0.01
Segment 1-Westside-Invert Construction	4/1/2034	7/31/2034	6	104	20	2034	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.5	0.00	0.01
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	2033	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.8	0.00	0.01
Segment 1-Westside-Rail and Plinth	8/1/2034	1/31/2035	6	158	20	2034	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.5	0.00	0.01
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.2	0.00	0.01
Segment 2-Mountain-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38.5	0.00	0.01
Segment 2-Mountain-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38.5	0.00	0.01
Segment 2-Mountain-Tunnel Boring/Tunneling	9/1/2031	1/31/2034	6	758	20	2031	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38.5	0.00	0.01
Segment 2-Mountain-TBM Retrieval/Tunnel Prep	2/1/2034	7/31/2034	6	155	20	2034	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.5	0.00	0.01
Segment 2-Mountain-Annular Grouting	9/1/2031	1/31/2034	6	758	20	2031	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38.5	0.00	0.01
Segment 2-Mountain-Invert Construction	5/1/2035	2/28/2037	6	575	20	2035	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.2	0.00	0.01
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	2034	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.5	0.00	0.01
Segment 2-Mountain-Rail and Plinth	4/1/2036	3/31/2037	6	313	20	2036	Water	3	6	2.0	0.00	0.07	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	36.9	0.00	0.01
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	2036	Water	3	6	2.0	0.00	0.07	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	36.9	0.00	0.01
Segment 3-Valley-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38.5	0.00	0.01
Segment 3-Valley-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38.5	0.00	0.01
Segment 3-Valley-Tunnel Boring/Tunneling	9/1/2031	8/31/2032	6	314	20	2031	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38.5	0.00	0.01
Segment 3-Valley-TBM Retrieval/Tunnel Prep	9/1/2032	2/28/2033	6	155	20	2032	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38.1	0.00	0.01
Segment 3-Valley-Annular Grouting	9/1/2031	8/31/2032	6	314	20	2031	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38.5	0.00	0.01
Segment 3-Valley-Invert Construction	4/1/2034	5/31/2035	6	365	20	2034	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.5	0.00	0.01
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	2032	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38.1	0.00	0.01
Segment 3-Valley-Rail and Plinth	8/1/2034	9/30/2035	6	365	20	2034	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.5	0.00	0.01
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.2	0.00	0.01
Mid Mountain Shaft-Site Preparation/Demolition	11/1/2031	12/31/2031	6	52	10	2031	Water	3	6	20.0	0.00	0.28	0.05	0.00	0.10	0.00	0.11	0.03	0.00	0.03	330.9	0.00	0.05
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	2031	Water	3	6	20.0	0.00	0.28	0.05	0.00	0.10	0.00	0.11	0.03	0.00	0.03	330.9	0.00	0.05
Mid Mountain Shaft-Drainage/Utilities	11/1/2031	12/31/2031	6	52	10	2031	Water	3	6	20.0	0.00	0.28	0.05	0.00	0.10	0.00	0.11	0.03	0.00	0.03	330.9	0.00	0.05
Mid Mountain Shaft-Shaft Drilling	1/1/2032	12/31/2032	6	314	10	2032	Water	3	6	20.0	0.00	0.28	0.05	0.00	0.10	0.00	0.11	0.03	0.00	0.03	327.5	0.00	0.05
Mid Mountain Shaft-Shaft Lining	1/1/2032	12/31/2032	6	314	10	2032	Water	3	6	20.0	0.00	0.28	0.05	0.00	0.10	0.00	0.11	0.03	0.00	0.03	327.5	0.00	0.05
Mid Mountain Shaft-Cavern and Adit	1/1/2033	12/31/2033	6	313	10	2033	Water	3	6	20.0	0.00	0.27	0.05	0.00	0.10	0.00	0.11	0.03	0.00	0.03	324.3	0.00	0.05
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39.4	0.00	0.01
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39.4	0.00	0.01
Van Nuys Metrolink Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39.4	0.00	0.01
Van Nuys Metrolink Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39.4	0.00	0.01
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39.4	0.00	0.01
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38.9	0.00	0.01
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.8	0.00	0.01
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Water	3	6	2.0	0.00	0.07	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	36.9	0.00	0.01
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.2	0.00	0.01
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39.4	0.00	0.01
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39.4	0.00	0.01
Metro G Line Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39.4	0.00	0.01
Metro G Line Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39.4	0.00	0.01
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39.4	0.00	0.01
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38.9	0.00	0.01
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.8	0.00	0.01
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Water	3	6	2.0	0.00	0.07	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	36.9	0.00	0.01
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.2	0.00	0.01
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39.4	0.00	0.01
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	2029	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39.4	0.00	0.01
Ventura Blvd Station-Grading	4/1/2029	7/31/2029	6	104	10	2029	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39.4	0.00	0.01
Ventura Blvd Station-Drainage	4/1/2029	6/30/2030	6	390	10	2029	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39.4	0.00	0.01
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	2030	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38.9	0.00	0.01
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	2031	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38.5	0.00	0.01
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.8	0.00	0.01
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	2036	Water	3	6	2.0	0.00	0.07	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	36.9	0.00	0.01
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.2	0.00	0.01

Sepulveda Transit Corridor Project - ALTERNATIVE 6

WATER TRUCKS (OFFSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Total Emissions (tons)										Total Emissions (metric tons)			
											ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Segment 1-Westside-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.8	0.00	0.00	1.9
Segment 1-Westside-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.8	0.00	0.00	1.9
Segment 1-Westside-Tunnel Boring/Tunneling	9/1/2031	10/31/2032	6	366	20	2031	Water	3	6	2.0	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.4	0.00	0.00	6.7
Segment 1-Westside-TBM Retrieval/Tunnel Prep	11/1/2032	4/30/2033	6	156	20	2032	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.7	0.00	0.00	2.8
Segment 1-Westside-Annular Grouting	9/1/2031	10/31/2032	6	366	20	2031	Water	3	6	2.0	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.4	0.00	0.00	6.7
Segment 1-Westside-Invert Construction	4/1/2034	7/31/2034	6	104	20	2034	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.8	0.00	0.00	1.9
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	2033	Water	3	6	2.0	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.3	0.00	0.00	5.6
Segment 1-Westside-Rail and Plinth	8/1/2034	1/31/2035	6	158	20	2034	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.7	0.00	0.00	2.8
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Water	3	6	2.0	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.3	0.00	0.00	5.5
Segment 2-Mountain-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.8	0.00	0.00	1.9
Segment 2-Mountain-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.8	0.00	0.00	1.9
Segment 2-Mountain-Tunnel Boring/Tunneling	9/1/2031	1/31/2034	6	758	20	2031	Water	3	6	2.0	0.00	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.2	0.00	0.00	13.9
Segment 2-Mountain-TBM Retrieval/Tunnel Prep	2/1/2034	7/31/2034	6	155	20	2034	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.6	0.00	0.00	2.8
Segment 2-Mountain-Annular Grouting	9/1/2031	1/31/2034	6	758	20	2031	Water	3	6	2.0	0.00	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.2	0.00	0.00	13.9
Segment 2-Mountain-Invert Construction	5/1/2035	2/28/2037	6	575	20	2035	Water	3	6	2.0	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.7	0.00	0.00	10.1
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	2034	Water	3	6	2.0	0.00	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.9	0.00	0.00	13.5
Segment 2-Mountain-Rail and Plinth	4/1/2036	3/31/2037	6	313	20	2036	Water	3	6	2.0	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.2	0.00	0.00	5.5
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	2036	Water	3	6	2.0	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.2	0.00	0.00	5.5
Segment 3-Valley-Ground Improvements	5/1/2031	8/31/2031	6	105	20	2031	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.8	0.00	0.00	1.9
Segment 3-Valley-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	2031	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.8	0.00	0.00	1.9
Segment 3-Valley-Tunnel Boring/Tunneling	9/1/2031	8/31/2032	6	314	20	2031	Water	3	6	2.0	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.5	0.00	0.00	5.7
Segment 3-Valley-TBM Retrieval/Tunnel Prep	9/1/2032	2/28/2033	6	155	20	2032	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.7	0.00	0.00	2.8
Segment 3-Valley-Annular Grouting	9/1/2031	8/31/2032	6	314	20	2031	Water	3	6	2.0	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.5	0.00	0.00	5.7
Segment 3-Valley-Invert Construction	4/1/2034	5/31/2035	6	365	20	2034	Water	3	6	2.0	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.2	0.00	0.00	6.5
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	2032	Water	3	6	2.0	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.6	0.00	0.00	9.0
Segment 3-Valley-Rail and Plinth	8/1/2034	9/30/2035	6	365	20	2034	Water	3	6	2.0	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.2	0.00	0.00	6.5
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	2035	Water	3	6	2.0	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.3	0.00	0.00	5.5
Mid Mountain Shaft-Site Preparation/Demolition	11/1/2031	12/31/2031	6	52	10	2031	Water	3	6	20.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.8	0.00	0.00	8.2
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	2031	Water	3	6	20.0	0.00	0.02	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	23.7	0.00	0.00	24.8
Mid Mountain Shaft-Drainage/Utilities	11/1/2031	12/31/2031	6	52	10	2031	Water	3	6	20.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.8	0.00	0.00	8.2
Mid Mountain Shaft-Shaft Drilling	1/1/2032	12/31/2032	6	314	10	2032	Water	3	6	20.0	0.00	0.04	0.01	0.00	0.02	0.00	0.02	0.00	0.00	0.00	46.6	0.00	0.01	48.8
Mid Mountain Shaft-Shaft Lining	1/1/2032	12/31/2032	6	314	10	2032	Water	3	6	20.0	0.00	0.04	0.01	0.00	0.02	0.00	0.02	0.00	0.00	0.00	46.6	0.00	0.01	48.8
Mid Mountain Shaft-Cavern and Adit	1/1/2033	12/31/2033	6	313	10	2033	Water	3	6	20.0	0.00	0.04	0.01	0.00	0.02	0.00	0.02	0.00	0.00	0.00	46.0	0.00	0.01	48.2
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.8	0.00	0.00	2.9
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.4	0.00	0.00	1.5
Van Nuys Metrolink Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.4	0.00	0.00	1.5
Van Nuys Metrolink Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.9	0.00	0.00	1.9
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.8	0.00	0.00	2.9
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.2	0.00	0.00	4.4
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Water	3	6	2.0	0.00	0.04	0.02	0.00	0.00	0.00	0.01	0.00	0.00	0.00	16.5	0.00	0.00	17.3
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.7	0.00	0.00	1.8
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Water	3	6	2.0	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.3	0.00	0.00	5.5
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.8	0.00	0.00	2.9
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.4	0.00	0.00	1.5
Metro G Line Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.4	0.00	0.00	1.5
Metro G Line Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.9	0.00	0.00	1.9
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.8	0.00	0.00	2.9
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.2	0.00	0.00	4.4
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Water	3	6	2.0	0.00	0.04	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.1	0.00	0.00	16.9
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.7	0.00	0.00	1.8
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Water	3	6	2.0	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.3	0.00	0.00	5.5
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.8	0.00	0.00	2.9
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	2029	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.9	0.00	0.00	1.9
Ventura Blvd Station-Grading	4/1/2029	7/31/2029	6	104	10	2029	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.9	0.00	0.00	1.9
Ventura Blvd Station-Drainage	4/1/2029	6/30/2030	6	390	10	2029	Water	3	6	2.0	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.0	0.00	0.00	7.3
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	2030	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.8	0.00	0.00	2.9
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	2031	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.1	0.00	0.00	4.3
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Water	3	6	2.0	0.00	0.04	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.1	0.00	0.00	16.9
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	2036	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.7	0.00	0.00	1.8
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Water	3	6	2.0	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.3	0.00	0.00	5.5

Sepulveda Transit Corridor Project - ALTERNATIVE 6

WATER TRUCKS (OFFSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Running Emission Factor (g/mile)[1,2,4] ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Water	3	6	2.0	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	2029	Water	3	6	2.0	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
UCLA Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Water	3	6	2.0	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
UCLA Station-Drainage	4/1/2029	12/31/2029	6	235	10	2029	Water	3	6	2.0	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Water	3	6	2.0	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	2030	Water	3	6	2.0	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	2034	Water	3	6	2.0	0.01	0.81	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1192.3	0.00	0.19
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	2036	Water	3	6	2.0	0.01	0.78	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1171.5	0.00	0.18
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	2036	Water	3	6	2.0	0.01	0.78	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1171.5	0.00	0.18
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Water	3	6	2.0	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Water	3	6	2.0	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Wilshire Blvd (Metro D Line) Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Water	3	6	2.0	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Wilshire Blvd (Metro D Line) Station-Drainage	4/1/2029	3/31/2030	6	312	10	2029	Water	3	6	2.0	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	2029	Water	3	6	2.0	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	2030	Water	3	6	2.0	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Water	3	6	2.0	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Water	3	6	2.0	0.01	0.78	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1171.5	0.00	0.18
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Water	3	6	2.0	0.01	0.79	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1182.1	0.00	0.19
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Water	3	6	2.0	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	2029	Water	3	6	2.0	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Santa Monica Blvd Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Water	3	6	2.0	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Santa Monica Blvd Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Water	3	6	2.0	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Water	3	6	2.0	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Water	3	6	2.0	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Water	3	6	2.0	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Water	3	6	2.0	0.01	0.78	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1171.5	0.00	0.18
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Water	3	6	2.0	0.01	0.79	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1182.1	0.00	0.19
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Water	3	6	2.0	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Water	3	6	2.0	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Metro E Line (Expo)/Bundy Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Water	3	6	2.0	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Metro E Line (Expo)/Bundy Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Water	3	6	2.0	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	2029	Water	3	6	2.0	0.01	0.89	0.05	0.01	0.38	0.02	0.40	0.10	0.01	0.12	1254.2	0.00	0.20
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Water	3	6	2.0	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Water	3	6	2.0	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Water	3	6	2.0	0.01	0.78	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1171.5	0.00	0.18
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Water	3	6	2.0	0.01	0.79	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1182.1	0.00	0.19
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Water	3	6	2.0	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Vanowen St/Van Nuys Blvd TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Water	3	6	2.0	0.01	0.79	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1182.1	0.00	0.19
Vanowen St/Van Nuys Blvd TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Water	3	6	2.0	0.01	0.78	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1171.5	0.00	0.18
Magnolia TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Water	3	6	2.0	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Magnolia TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Water	3	6	2.0	0.01	0.79	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1182.1	0.00	0.19
Magnolia TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Water	3	6	2.0	0.01	0.78	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1171.5	0.00	0.18
Mid Mountain Shaft TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Water	3	6	2.0	0.01	0.85	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1227.8	0.00	0.19
Mid Mountain Shaft TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Water	3	6	2.0	0.01	0.79	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1182.1	0.00	0.19
Mid Mountain Shaft TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Water	3	6	2.0	0.01	0.78	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1171.5	0.00	0.18
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	2033	Water	3	6	2.0	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
OMSF-Grading	2/1/2033	7/31/2033	5	129	8	2033	Water	3	6	2.0	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Water	3	6	2.0	0.01	0.81	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1192.3	0.00	0.19
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	2033	Water	3	6	2.0	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
OMSF-Drainage/Utilties	5/1/2033	10/31/2033	5	131	8	2033	Water	3	6	2.0	0.01	0.82	0.04	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1203.4	0.00	0.19
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	2030	Water	3	6	2.0	0.01	0.87	0.05	0.01	0.39	0.02	0.40	0.10	0.01	0.12	1240.9	0.00	0.20

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate Speeds; **Fleet Mix:100%** HHDT); **Fuel Type:** Diesel
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 6

WATER TRUCKS (OFFSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Non-Running Emission Factor (g/trip)[1,3]												
											ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Water	3	6	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	2029	Water	3	6	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
UCLA Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Water	3	6	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
UCLA Station-Drainage	4/1/2029	12/31/2029	6	235	10	2029	Water	3	6	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Water	3	6	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	2030	Water	3	6	2.0	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	2034	Water	3	6	2.0	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	2036	Water	3	6	2.0	0.19	4.09	3.07	0.004	-	0.001	0.001	-	0.001	0.001	444.4	0.01	0.07
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	2036	Water	3	6	2.0	0.19	4.09	3.07	0.004	-	0.001	0.001	-	0.001	0.001	444.4	0.01	0.07
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Water	3	6	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Water	3	6	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Wilshire Blvd (Metro D Line) Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Water	3	6	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Wilshire Blvd (Metro D Line) Station-Drainage	4/1/2029	3/31/2030	6	312	10	2029	Water	3	6	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	2029	Water	3	6	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	2030	Water	3	6	2.0	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Water	3	6	2.0	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Water	3	6	2.0	0.19	4.09	3.07	0.004	-	0.001	0.001	-	0.001	0.001	444.4	0.01	0.07
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Water	3	6	2.0	0.19	4.12	3.05	0.004	-	0.001	0.001	-	0.001	0.001	445.5	0.01	0.07
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Water	3	6	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	2029	Water	3	6	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Santa Monica Blvd Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Water	3	6	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Santa Monica Blvd Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Water	3	6	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Water	3	6	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Water	3	6	2.0	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Water	3	6	2.0	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Water	3	6	2.0	0.19	4.09	3.07	0.004	-	0.001	0.001	-	0.001	0.001	444.4	0.01	0.07
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Water	3	6	2.0	0.19	4.12	3.05	0.004	-	0.001	0.001	-	0.001	0.001	445.5	0.01	0.07
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Water	3	6	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Water	3	6	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Metro E Line (Expo)/Bundy Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Water	3	6	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Metro E Line (Expo)/Bundy Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Water	3	6	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	2029	Water	3	6	2.0	0.19	4.43	2.99	0.004	-	0.001	0.001	-	0.001	0.001	468.3	0.01	0.07
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Water	3	6	2.0	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Water	3	6	2.0	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Water	3	6	2.0	0.19	4.09	3.07	0.004	-	0.001	0.001	-	0.001	0.001	444.4	0.01	0.07
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Water	3	6	2.0	0.19	4.12	3.05	0.004	-	0.001	0.001	-	0.001	0.001	445.5	0.01	0.07
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Water	3	6	2.0	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Vanowen St/Van Nuys Blvd TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Water	3	6	2.0	0.19	4.12	3.05	0.004	-	0.001	0.001	-	0.001	0.001	445.5	0.01	0.07
Vanowen St/Van Nuys Blvd TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Water	3	6	2.0	0.19	4.09	3.07	0.004	-	0.001	0.001	-	0.001	0.001	444.4	0.01	0.07
Magnolia TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Water	3	6	2.0	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Magnolia TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Water	3	6	2.0	0.19	4.12	3.05	0.004	-	0.001	0.001	-	0.001	0.001	445.5	0.01	0.07
Magnolia TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Water	3	6	2.0	0.19	4.09	3.07	0.004	-	0.001	0.001	-	0.001	0.001	444.4	0.01	0.07
Mid Mountain Shaft TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Water	3	6	2.0	0.19	4.29	3.00	0.004	-	0.001	0.001	-	0.001	0.001	457.6	0.01	0.07
Mid Mountain Shaft TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Water	3	6	2.0	0.19	4.12	3.05	0.004	-	0.001	0.001	-	0.001	0.001	445.5	0.01	0.07
Mid Mountain Shaft TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Water	3	6	2.0	0.19	4.09	3.07	0.004	-	0.001	0.001	-	0.001	0.001	444.4	0.01	0.07
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	2033	Water	3	6	2.0	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
OMSF-Grading	2/1/2033	7/31/2033	5	129	8	2033	Water	3	6	2.0	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Water	3	6	2.0	0.19	4.15	3.04	0.004	-	0.001	0.001	-	0.001	0.001	447.6	0.01	0.07
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	2033	Water	3	6	2.0	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
OMSF-Drainage/Utilties	5/1/2033	10/31/2033	5	131	8	2033	Water	3	6	2.0	0.19	4.19	3.02	0.004	-	0.001	0.001	-	0.001	0.001	450.3	0.01	0.07
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	2030	Water	3	6	2.0	0.19	4.35	2.99	0.004	-	0.001	0.001	-	0.001	0.001	462.4	0.01	0.07

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate Speeds; **Fleet Mix:100%** HHDT); **Fuel Type:** Diesel

2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.

3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 6

WATER TRUCKS (OFFSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Daily Emissions (lb/day)												
											ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39.4	0.00	0.01
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	2029	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39.4	0.00	0.01
UCLA Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39.4	0.00	0.01
UCLA Station-Drainage	4/1/2029	12/31/2029	6	235	10	2029	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39.4	0.00	0.01
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39.4	0.00	0.01
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	2030	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38.9	0.00	0.01
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	2034	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.5	0.00	0.01
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	2036	Water	3	6	2.0	0.00	0.07	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	36.9	0.00	0.01
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	2036	Water	3	6	2.0	0.00	0.07	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	36.9	0.00	0.01
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39.4	0.00	0.01
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39.4	0.00	0.01
Wilshire Blvd (Metro D Line) Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39.4	0.00	0.01
Wilshire Blvd (Metro D Line) Station-Drainage	4/1/2029	3/31/2030	6	312	10	2029	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39.4	0.00	0.01
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	2029	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39.4	0.00	0.01
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	2030	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38.9	0.00	0.01
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.8	0.00	0.01
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Water	3	6	2.0	0.00	0.07	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	36.9	0.00	0.01
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.2	0.00	0.01
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39.4	0.00	0.01
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	2029	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39.4	0.00	0.01
Santa Monica Blvd Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39.4	0.00	0.01
Santa Monica Blvd Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39.4	0.00	0.01
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39.4	0.00	0.01
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38.9	0.00	0.01
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.8	0.00	0.01
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Water	3	6	2.0	0.00	0.07	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	36.9	0.00	0.01
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.2	0.00	0.01
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39.4	0.00	0.01
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39.4	0.00	0.01
Metro E Line (Expo)/Bundy Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39.4	0.00	0.01
Metro E Line (Expo)/Bundy Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39.4	0.00	0.01
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	2029	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	39.4	0.00	0.01
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38.9	0.00	0.01
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.8	0.00	0.01
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Water	3	6	2.0	0.00	0.07	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	36.9	0.00	0.01
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.2	0.00	0.01
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38.5	0.00	0.01
Vanowen St/Van Nuys Blvd TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.2	0.00	0.01
Vanowen St/Van Nuys Blvd TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Water	3	6	2.0	0.00	0.07	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	36.9	0.00	0.01
Magnolia TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38.5	0.00	0.01
Magnolia TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.2	0.00	0.01
Magnolia TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Water	3	6	2.0	0.00	0.07	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	36.9	0.00	0.01
Mid Mountain Shaft TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38.5	0.00	0.01
Mid Mountain Shaft TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.2	0.00	0.01
Mid Mountain Shaft TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Water	3	6	2.0	0.00	0.07	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	36.9	0.00	0.01
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	2033	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.8	0.00	0.01
OMSF-Grading	2/1/2033	7/31/2033	5	129	8	2033	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.8	0.00	0.01
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.5	0.00	0.01
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	2033	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.8	0.00	0.01
OMSF-Drainage/Utilties	5/1/2033	10/31/2033	5	131	8	2033	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	37.8	0.00	0.01
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	2030	Water	3	6	2.0	0.00	0.08	0.04	0.00	0.01	0.00	0.01	0.00	0.00	0.00	38.9	0.00	0.01

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate Speeds; **Fleet Mix:100%** HHDT); **Fuel Type:** Diesel
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 6

WATER TRUCKS (OFFSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	EF Year	Trip Type	Round Trips per Day	Total One-Way Trips per Day	One-Way Trip Length (mi)	Total Emissions (tons)										Total Emissions (metric tons)			
											ROG	NO_X	CO	SO_X	PM_{10} FD	PM_{10} EXH	PM_{10} Total	$PM_{2.5}$ FD	$PM_{2.5}$ EXH	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	2029	Water	3	6	2.0	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.4	0.00	0.00	8.8
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	2029	Water	3	6	2.0	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.4	0.00	0.00	8.8
UCLA Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.4	0.00	0.00	1.5
UCLA Station-Drainage	4/1/2029	12/31/2029	6	235	10	2029	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.2	0.00	0.00	4.4
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.8	0.00	0.00	2.9
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	2030	Water	3	6	2.0	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.5	0.00	0.00	5.8
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	2034	Water	3	6	2.0	0.00	0.04	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.0	0.00	0.00	16.7
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	2036	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.6	0.00	0.00	2.7
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	2036	Water	3	6	2.0	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.2	0.00	0.00	5.5
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.8	0.00	0.00	2.9
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.4	0.00	0.00	1.5
Wilshire Blvd (Metro D Line) Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.4	0.00	0.00	1.5
Wilshire Blvd (Metro D Line) Station-Drainage	4/1/2029	3/31/2030	6	312	10	2029	Water	3	6	2.0	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.6	0.00	0.00	5.8
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	2029	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.7	0.00	0.00	3.9
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	2030	Water	3	6	2.0	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.9	0.00	0.00	7.2
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Water	3	6	2.0	0.00	0.04	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.1	0.00	0.00	16.9
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.7	0.00	0.00	1.8
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Water	3	6	2.0	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.3	0.00	0.00	5.5
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.8	0.00	0.00	2.9
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	2029	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.8	0.00	0.00	2.9
Santa Monica Blvd Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.4	0.00	0.00	1.5
Santa Monica Blvd Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.9	0.00	0.00	1.9
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	2029	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.8	0.00	0.00	2.9
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.2	0.00	0.00	4.4
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	2033	Water	3	6	2.0	0.00	0.04	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.1	0.00	0.00	16.9
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.7	0.00	0.00	1.8
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	2035	Water	3	6	2.0	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.3	0.00	0.00	5.5
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	2029	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.8	0.00	0.00	2.9
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	2029	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.4	0.00	0.00	1.5
Metro E Line (Expo)/Bundy Station-Grading	4/1/2029	6/30/2029	6	78	10	2029	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.4	0.00	0.00	1.5
Metro E Line (Expo)/Bundy Station-Drainage	4/1/2029	7/31/2029	6	104	10	2029	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.9	0.00	0.00	1.9
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	2029	Water	3	6	2.0	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.6	0.00	0.00	5.9
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	2030	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.2	0.00	0.00	4.4
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	2033	Water	3	6	2.0	0.00	0.04	0.02	0.00	0.00	0.00	0.01	0.00	0.00	0.00	16.5	0.00	0.00	17.3
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	2036	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.7	0.00	0.00	1.8
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	2035	Water	3	6	2.0	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.3	0.00	0.00	5.5
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.8	0.00	0.00	0.8
Vanowen St/Van Nuys Blvd TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.7	0.00	0.00	0.8
Vanowen St/Van Nuys Blvd TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.4	0.00	0.00	0.4
Magnolia TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.8	0.00	0.00	0.8
Magnolia TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.7	0.00	0.00	0.8
Magnolia TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.4	0.00	0.00	0.4
Mid Mountain Shaft TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	2031	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.8	0.00	0.00	0.8
Mid Mountain Shaft TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	2035	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.7	0.00	0.00	0.8
Mid Mountain Shaft TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	2036	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.4	0.00	0.00	0.4
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	2033	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.2	0.00	0.00	2.3
OMSF-Grading	2/1/2033	7/31/2033	5	129	8	2033	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.2	0.00	0.00	2.3
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	2034	Water	3	6	2.0	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.9	0.00	0.00	6.2
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	2033	Water	3	6	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.2	0.00	0.00	2.3
OMSF-Drainage/Utilties	5/1/2033	10/31/2033	5	131	8	2033	Water	3	6	2.0	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.2	0.00	0.00	2.4
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	2030	Water	3	6	2.0	0.00	0.05	0.03	0.00	0.01	0.00	0.01	0.00	0.00	0.00	22.1	0.00	0.00	23.2

Notes:

1. Emission factors generated from EMFAC2021. **Region:** SCAQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** 2007 or newer; **Speed:** Aggregate Speeds; **Fleet Mix:100%** HHDT); **Fuel Type:** Diesel
2. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
3. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.

FD = Fugitive Dust

EXH = Exhaust

*The terms volatile organic compounds (VOC) and ROG (reactive organic gases) are used interchangeably. SCAQMD uses VOC, and CalEEMod uses ROG.

Sepulveda Transit Corridor Project - ALTERNATIVE 6

ARCHITECTURAL COATINGS-NON-RESIDENTIAL BUILDINGS (ONSITE)

								Non-Residential Interior						Non-Residential Exterior							
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	Coating Type	Building Area (SF)	VOC Content (g/L)	Interior EF (lb VOC/SF)	Interior Fraction of Surface Area	Surface Area Factor	Interior Surface Area (SF)	Interior Emissions (lbs)	VOC Content (g/L)	Exterior EF (lb VOC/SF)	Exterior Fraction of Surface Area	Surface Area Factor	Exterior Surface Area (SF)	Exterior Emissions (lbs)	Total ROG Emissions (tons)	Daily ROG Emissions (lb/day)
Segment 1-Westside-Ground Improvements	5/1/2031	8/31/2031	6	105	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 1-Westside-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 1-Westside-Tunnel Boring/Tunneling	9/1/2031	10/31/2032	6	366	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 1-Westside-TBM Retrieval/Tunnel Prep	11/1/2032	4/30/2033	6	156	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 1-Westside-Annular Grouting	9/1/2031	10/31/2032	6	366	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 1-Westside-Invert Construction	4/1/2034	7/31/2034	6	104	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 1-Westside-Rail and Plinth	8/1/2034	1/31/2035	6	158	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 2-Mountain-Ground Improvements	5/1/2031	8/31/2031	6	105	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 2-Mountain-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 2-Mountain-Tunnel Boring/Tunneling	9/1/2031	1/31/2034	6	758	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 2-Mountain-TBM Retrieval/Tunnel Prep	2/1/2034	7/31/2034	6	155	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 2-Mountain-Annular Grouting	9/1/2031	1/31/2034	6	758	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 2-Mountain-Invert Construction	5/1/2035	2/28/2037	6	575	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 2-Mountain-Rail and Plinth	4/1/2036	3/31/2037	6	313	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 3-Valley-Ground Improvements	5/1/2031	8/31/2031	6	105	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 3-Valley-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 3-Valley-Tunnel Boring/Tunneling	9/1/2031	8/31/2032	6	314	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 3-Valley-TBM Retrieval/Tunnel Prep	9/1/2032	2/28/2033	6	155	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 3-Valley-Annular Grouting	9/1/2031	8/31/2032	6	314	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 3-Valley-Invert Construction	4/1/2034	5/31/2035	6	365	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 3-Valley-Rail and Plinth	8/1/2034	9/30/2035	6	365	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Mid Mountain Shaft-Site Preparation/Demolition	11/1/2031	12/31/2031	6	52	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Mid Mountain Shaft-Drainage/Utilities	11/1/2031	12/31/2031	6	52	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Mid Mountain Shaft-Shaft Drilling	1/1/2032	12/31/2032	6	314	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Mid Mountain Shaft-Shaft Lining	1/1/2032	12/31/2032	6	314	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Mid Mountain Shaft-Cavern and Adit	1/1/2033	12/31/2033	6	313	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Van Nuys Metrolink Station-Grading	4/1/2029	6/30/2029	6	78	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Van Nuys Metrolink Station-Drainage	4/1/2029	7/31/2029	6	104	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	Non-Residential	15000	100	0.00464	75%	2.0	22500.0	104.3	100	0.00464	25%	2.0	7500.0	34.8	0.07	0.14
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Metro G Line Station-Grading	4/1/2029	6/30/2029	6	78	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Metro G Line Station-Drainage	4/1/2029	7/31/2029	6	104	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Non-Residential	15000	100	0.00464	75%	2.0	22500.0	104.3	100	0.00464	25%	2.0	7500.0	34.8	0.07	0.15
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Ventura Blvd Station-Grading	4/1/2029	7/31/2029	6	104	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Ventura Blvd Station-Drainage	4/1/2029	6/30/2030	6	390	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Non-Residential	15000	100	0.00464	75%	2.0	22500.0	104.3	100	0.00464	25%	2.0	7500.0	34.8	0.07	0.15
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 6

ARCHITECTURAL COATINGS-NON-RESIDENTIAL BUILDINGS (ONSITE)

								Non-Residential Interior						Non-Residential Exterior							
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	Coating Type	Building Area (SF)	VOC Content (g/L)	Interior EF (lb VOC/SF)	Interior Fraction of Surface Area	Surface Area Factor	Interior Surface Area (SF)	Interior Emissions (lbs)	VOC Content (g/L)	Exterior EF (lb VOC/SF)	Exterior Fraction of Surface Area	Surface Area Factor	Exterior Surface Area (SF)	Exterior Emissions (lbs)	Total ROG Emissions (tons)	Daily ROG Emissions (lb/day)
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
UCLA Station-Grading	4/1/2029	6/30/2029	6	78	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
UCLA Station-Drainage	4/1/2029	12/31/2029	6	235	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	Non-Residential	15000	100	0.00464	75%	2.0	22500.0	104.3	100	0.00464	25%	2.0	7500.0	34.8	0.07	0.15
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolitior	4/1/2029	6/30/2029	6	78	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Grading	4/1/2029	6/30/2029	6	78	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Drainage	4/1/2029	3/31/2030	6	312	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Non-Residential	15000	100	0.00464	75%	2.0	22500.0	104.3	100	0.00464	25%	2.0	7500.0	34.8	0.07	0.15
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Santa Monica Blvd Station-Grading	4/1/2029	6/30/2029	6	78	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Santa Monica Blvd Station-Drainage	4/1/2029	7/31/2029	6	104	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Non-Residential	15000	100	0.00464	75%	2.0	22500.0	104.3	100	0.00464	25%	2.0	7500.0	34.8	0.07	0.15
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Metro E Line (Expo)/Bundy Station-Grading	4/1/2029	6/30/2029	6	78	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Metro E Line (Expo)/Bundy Station-Drainage	4/1/2029	7/31/2029	6	104	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	Non-Residential	15000	100	0.00464	75%	2.0	22500.0	104.3	100	0.00464	25%	2.0	7500.0	34.8	0.07	0.14
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Vanowen St/Van Nuys Blvd TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Vanowen St/Van Nuys Blvd TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Magnolia TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Magnolia TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Magnolia TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Mid Mountain Shaft TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Mid Mountain Shaft TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Mid Mountain Shaft TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
OMSF-Grading	2/1/2033	7/31/2033	5	129	8	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	Non-Residential	175292	100	0.00464	75%	2.0	262938.0	1218.9	100	0.00464	25%	2.0	87646.0	406.3	0.81	4.64
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
OMSF-Drainage/Utilties	5/1/2033	10/31/2033	5	131	8	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	Non-Residential	-	100	0.00464	75%	2.0	-	-	100	0.00464	25%	2.0	-	-	-	-

Notes:

1. VOC content values based on CalEEMod default values.
2. Emissions calculated in accordance with CalEEMod methodology.

Sepulveda Transit Corridor Project - ALTERNATIVE 6

ARCHITECTURAL COATINGS-PARKING (ONSITE)

							Parking Paved Area					
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Hours per Workday**	**Coating Type**	**Parking Area (SF)**	**VOC Content (g/L)**	**Parking EF (lb VOC/SF)**	**% of Parking Area Painted**	**Parking Area to Be Painted (SF)**	**Total ROG Emissions (tons)**	**Daily ROG Emissions (lb/day)**
Segment 1-Westside-Ground Improvements	5/1/2031	8/31/2031	6	105	20	Parking	0	100	0.00464	6%	-	-	-
Segment 1-Westside-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	Parking	0	100	0.00464	6%	-	-	-
Segment 1-Westside-Tunnel Boring/Tunneling	9/1/2031	10/31/2032	6	366	20	Parking	0	100	0.00464	6%	-	-	-
Segment 1-Westside-TBM Retrieval/Tunnel Prep	11/1/2032	4/30/2033	6	156	20	Parking	0	100	0.00464	6%	-	-	-
Segment 1-Westside-Annular Grouting	9/1/2031	10/31/2032	6	366	20	Parking	0	100	0.00464	6%	-	-	-
Segment 1-Westside-Invert Construction	4/1/2034	7/31/2034	6	104	20	Parking	0	100	0.00464	6%	-	-	-
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	Parking	0	100	0.00464	6%	-	-	-
Segment 1-Westside-Rail and Plinth	8/1/2034	1/31/2035	6	158	20	Parking	0	100	0.00464	6%	-	-	-
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	Parking	0	100	0.00464	6%	-	-	-
Segment 2-Mountain-Ground Improvements	5/1/2031	8/31/2031	6	105	20	Parking	0	100	0.00464	6%	-	-	-
Segment 2-Mountain-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	Parking	0	100	0.00464	6%	-	-	-
Segment 2-Mountain-Tunnel Boring/Tunneling	9/1/2031	1/31/2034	6	758	20	Parking	0	100	0.00464	6%	-	-	-
Segment 2-Mountain-TBM Retrieval/Tunnel Prep	2/1/2034	7/31/2034	6	155	20	Parking	0	100	0.00464	6%	-	-	-
Segment 2-Mountain-Annular Grouting	9/1/2031	1/31/2034	6	758	20	Parking	0	100	0.00464	6%	-	-	-
Segment 2-Mountain-Invert Construction	5/1/2035	2/28/2037	6	575	20	Parking	0	100	0.00464	6%	-	-	-
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	Parking	0	100	0.00464	6%	-	-	-
Segment 2-Mountain-Rail and Plinth	4/1/2036	3/31/2037	6	313	20	Parking	0	100	0.00464	6%	-	-	-
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	Parking	0	100	0.00464	6%	-	-	-
Segment 3-Valley-Ground Improvements	5/1/2031	8/31/2031	6	105	20	Parking	0	100	0.00464	6%	-	-	-
Segment 3-Valley-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	Parking	0	100	0.00464	6%	-	-	-
Segment 3-Valley-Tunnel Boring/Tunneling	9/1/2031	8/31/2032	6	314	20	Parking	0	100	0.00464	6%	-	-	-
Segment 3-Valley-TBM Retrieval/Tunnel Prep	9/1/2032	2/28/2033	6	155	20	Parking	0	100	0.00464	6%	-	-	-
Segment 3-Valley-Annular Grouting	9/1/2031	8/31/2032	6	314	20	Parking	0	100	0.00464	6%	-	-	-
Segment 3-Valley-Invert Construction	4/1/2034	5/31/2035	6	365	20	Parking	0	100	0.00464	6%	-	-	-
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	Parking	0	100	0.00464	6%	-	-	-
Segment 3-Valley-Rail and Plinth	8/1/2034	9/30/2035	6	365	20	Parking	0	100	0.00464	6%	-	-	-
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	Parking	0	100	0.00464	6%	-	-	-
Mid Mountain Shaft-Site Preparation/Demolition	11/1/2031	12/31/2031	6	52	10	Parking	0	100	0.00464	6%	-	-	-
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	Parking	0	100	0.00464	6%	-	-	-
Mid Mountain Shaft-Drainage/Utilities	11/1/2031	12/31/2031	6	52	10	Parking	0	100	0.00464	6%	-	-	-
Mid Mountain Shaft-Shaft Drilling	1/1/2032	12/31/2032	6	314	10	Parking	0	100	0.00464	6%	-	-	-
Mid Mountain Shaft-Shaft Lining	1/1/2032	12/31/2032	6	314	10	Parking	0	100	0.00464	6%	-	-	-
Mid Mountain Shaft-Cavern and Adit	1/1/2033	12/31/2033	6	313	10	Parking	0	100	0.00464	6%	-	-	-
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Parking	0	100	0.00464	6%	-	-	-
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	Parking	0	100	0.00464	6%	-	-	-
Van Nuys Metrolink Station-Grading	4/1/2029	6/30/2029	6	78	10	Parking	0	100	0.00464	6%	-	-	-
Van Nuys Metrolink Station-Drainage	4/1/2029	7/31/2029	6	104	10	Parking	0	100	0.00464	6%	-	-	-
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	Parking	0	100	0.00464	6%	-	-	-
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	Parking	0	100	0.00464	6%	-	-	-
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	Parking	0	100	0.00464	6%	-	-	-
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Parking	220133	100	0.00464	6%	13207.98	0.03	0.59
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	Parking	0	100	0.00464	6%	-	-	-
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Parking	0	100	0.00464	6%	-	-	-
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	Parking	0	100	0.00464	6%	-	-	-
Metro G Line Station-Grading	4/1/2029	6/30/2029	6	78	10	Parking	0	100	0.00464	6%	-	-	-
Metro G Line Station-Drainage	4/1/2029	7/31/2029	6	104	10	Parking	0	100	0.00464	6%	-	-	-
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	Parking	0	100	0.00464	6%	-	-	-
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	Parking	0	100	0.00464	6%	-	-	-
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Parking	0	100	0.00464	6%	-	-	-
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Parking	109781	100	0.00464	6%	6586.86	0.02	0.29
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	Parking	0	100	0.00464	6%	-	-	-
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Parking	0	100	0.00464	6%	-	-	-
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	Parking	0	100	0.00464	6%	-	-	-
Ventura Blvd Station-Grading	4/1/2029	7/31/2029	6	104	10	Parking	0	100	0.00464	6%	-	-	-
Ventura Blvd Station-Drainage	4/1/2029	6/30/2030	6	390	10	Parking	0	100	0.00464	6%	-	-	-
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	Parking	0	100	0.00464	6%	-	-	-
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	Parking	0	100	0.00464	6%	-	-	-
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Parking	0	100	0.00464	6%	-	-	-
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	Parking	145956	100	0.00464	6%	8757.36	0.02	0.39
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	Parking	0	100	0.00464	6%	-	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 6

ARCHITECTURAL COATINGS-PARKING (ONSITE)

								Parking Paved Area					
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Hours per Workday**	**Coating Type**	**Parking Area (SF)**	**VOC Content (g/L)**	**Parking EF (lb VOC/SF)**	**% of Parking Area Painted**	**Parking Area to Be Painted (SF)**	**Total ROG Emissions (tons)**	**Daily ROG Emissions (lb/day)**
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	Parking	0	100	0.00464	6%	-	-	-
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	Parking	0	100	0.00464	6%	-	-	-
UCLA Station-Grading	4/1/2029	6/30/2029	6	78	10	Parking	0	100	0.00464	6%	-	-	-
UCLA Station-Drainage	4/1/2029	12/31/2029	6	235	10	Parking	0	100	0.00464	6%	-	-	-
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	Parking	0	100	0.00464	6%	-	-	-
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	Parking	0	100	0.00464	6%	-	-	-
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	Parking	0	100	0.00464	6%	-	-	-
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	Parking	62312	100	0.00464	6%	3738.72	0.01	0.11
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	Parking	0	100	0.00464	6%	-	-	-
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Parking	0	100	0.00464	6%	-	-	-
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolitior	4/1/2029	6/30/2029	6	78	10	Parking	0	100	0.00464	6%	-	-	-
Wilshire Blvd (Metro D Line) Station-Grading	4/1/2029	6/30/2029	6	78	10	Parking	0	100	0.00464	6%	-	-	-
Wilshire Blvd (Metro D Line) Station-Drainage	4/1/2029	3/31/2030	6	312	10	Parking	0	100	0.00464	6%	-	-	-
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	Parking	0	100	0.00464	6%	-	-	-
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	Parking	0	100	0.00464	6%	-	-	-
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Parking	0	100	0.00464	6%	-	-	-
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Parking	16628	100	0.00464	6%	997.68	0.00	0.04
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	Parking	0	100	0.00464	6%	-	-	-
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Parking	0	100	0.00464	6%	-	-	-
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	Parking	0	100	0.00464	6%	-	-	-
Santa Monica Blvd Station-Grading	4/1/2029	6/30/2029	6	78	10	Parking	0	100	0.00464	6%	-	-	-
Santa Monica Blvd Station-Drainage	4/1/2029	7/31/2029	6	104	10	Parking	0	100	0.00464	6%	-	-	-
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	Parking	0	100	0.00464	6%	-	-	-
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	Parking	0	100	0.00464	6%	-	-	-
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	Parking	0	100	0.00464	6%	-	-	-
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Parking	80148	100	0.00464	6%	4808.88	0.01	0.21
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	Parking	0	100	0.00464	6%	-	-	-
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	Parking	0	100	0.00464	6%	-	-	-
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	Parking	0	100	0.00464	6%	-	-	-
Metro E Line (Expo)/Bundy Station-Grading	4/1/2029	6/30/2029	6	78	10	Parking	0	100	0.00464	6%	-	-	-
Metro E Line (Expo)/Bundy Station-Drainage	4/1/2029	7/31/2029	6	104	10	Parking	0	100	0.00464	6%	-	-	-
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	Parking	0	100	0.00464	6%	-	-	-
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	Parking	0	100	0.00464	6%	-	-	-
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	Parking	0	100	0.00464	6%	-	-	-
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	Parking	205485	100	0.00464	6%	12329.10	0.03	0.55
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	Parking	0	100	0.00464	6%	-	-	-
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	Parking	0	100	0.00464	6%	-	-	-
Vanowen St/Van Nuys Blvd TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	Parking	0	100	0.00464	6%	-	-	-
Vanowen St/Van Nuys Blvd TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	Parking	0	100	0.00464	6%	-	-	-
Magnolia TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	Parking	0	100	0.00464	6%	-	-	-
Magnolia TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	Parking	0	100	0.00464	6%	-	-	-
Magnolia TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	Parking	0	100	0.00464	6%	-	-	-
Mid Mountain Shaft TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	Parking	0	100	0.00464	6%	-	-	-
Mid Mountain Shaft TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	Parking	0	100	0.00464	6%	-	-	-
Mid Mountain Shaft TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	Parking	0	100	0.00464	6%	-	-	-
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	Parking	0	100	0.00464	6%	-	-	-
OMSF-Grading	2/1/2033	7/31/2033	5	129	8	Parking	0	100	0.00464	6%	-	-	-
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	Parking	0	100	0.00464	6%	-	-	-
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	Parking	566278	100	0.00464	6%	33976.68	0.08	1.22
OMSF-Drainage/Utilties	5/1/2033	10/31/2033	5	131	8	Parking	0	100	0.00464	6%	-	-	-
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	Parking	0	100	0.00464	6%	-	-	-

Notes:

1. VOC content values based on CalEEMod default values.
2. Emissions calculated in accordance with CalEEMod methodology.

Sepulveda Transit Corridor Project - ALTERNATIVE 6

PAVING OFF-GASSING (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	Paved Area (SF)	Paved Area (Acres)	Paved Area (Acres) / day	Off-Gassing EF (lb/acre)[1]	Daily ROG Emissions (lb/day)[2]	Total ROG Emissions (tons)[2]
Segment 1-Westside-Ground Improvements	5/1/2031	8/31/2031	6	105	20	-	-	-	2.62	-	-
Segment 1-Westside-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	-	-	-	2.62	-	-
Segment 1-Westside-Tunnel Boring/Tunneling	9/1/2031	10/31/2032	6	366	20	-	-	-	2.62	-	-
Segment 1-Westside-TBM Retrieval/Tunnel Prep	11/1/2032	4/30/2033	6	156	20	-	-	-	2.62	-	-
Segment 1-Westside-Annular Grouting	9/1/2031	10/31/2032	6	366	20	-	-	-	2.62	-	-
Segment 1-Westside-Invert Construction	4/1/2034	7/31/2034	6	104	20	-	-	-	2.62	-	-
Segment 1-Westside-Cross Passage	5/1/2033	4/30/2034	6	312	20	-	-	-	2.62	-	-
Segment 1-Westside-Rail and Plinth	8/1/2034	1/31/2035	6	158	20	-	-	-	2.62	-	-
Segment 1-Westside-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	-	-	-	2.62	-	-
Segment 2-Mountain-Ground Improvements	5/1/2031	8/31/2031	6	105	20	-	-	-	2.62	-	-
Segment 2-Mountain-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	-	-	-	2.62	-	-
Segment 2-Mountain-Tunnel Boring/Tunneling	9/1/2031	1/31/2034	6	758	20	-	-	-	2.62	-	-
Segment 2-Mountain-TBM Retrieval/Tunnel Prep	2/1/2034	7/31/2034	6	155	20	-	-	-	2.62	-	-
Segment 2-Mountain-Annular Grouting	9/1/2031	1/31/2034	6	758	20	-	-	-	2.62	-	-
Segment 2-Mountain-Invert Construction	5/1/2035	2/28/2037	6	575	20	-	-	-	2.62	-	-
Segment 2-Mountain-Cross Passage	7/1/2034	11/30/2036	6	757	20	-	-	-	2.62	-	-
Segment 2-Mountain-Rail and Plinth	4/1/2036	3/31/2037	6	313	20	-	-	-	2.62	-	-
Segment 2-Mountain-Systems, Testing, Commissioning	4/1/2036	3/31/2037	6	313	20	-	-	-	2.62	-	-
Segment 3-Valley-Ground Improvements	5/1/2031	8/31/2031	6	105	20	-	-	-	2.62	-	-
Segment 3-Valley-Tunnel Boring Setup/Assembly	5/1/2031	8/31/2031	6	105	20	-	-	-	2.62	-	-
Segment 3-Valley-Tunnel Boring/Tunneling	9/1/2031	8/31/2032	6	314	20	-	-	-	2.62	-	-
Segment 3-Valley-TBM Retrieval/Tunnel Prep	9/1/2032	2/28/2033	6	155	20	-	-	-	2.62	-	-
Segment 3-Valley-Annular Grouting	9/1/2031	8/31/2032	6	314	20	-	-	-	2.62	-	-
Segment 3-Valley-Invert Construction	4/1/2034	5/31/2035	6	365	20	-	-	-	2.62	-	-
Segment 3-Valley-Cross Passage	9/1/2032	3/31/2034	6	495	20	-	-	-	2.62	-	-
Segment 3-Valley-Rail and Plinth	8/1/2034	9/30/2035	6	365	20	-	-	-	2.62	-	-
Segment 3-Valley-Systems, Testing, Commissioning	2/1/2035	1/31/2036	6	313	20	-	-	-	2.62	-	-
Mid Mountain Shaft-Site Preparation/Demolition	11/1/2031	12/31/2031	6	52	10	-	-	-	2.62	-	-
Mid Mountain Shaft-Access Road	5/1/2031	10/31/2031	6	158	10	-	-	-	2.62	-	-
Mid Mountain Shaft-Drainage/Utilities	11/1/2031	12/31/2031	6	52	10	-	-	-	2.62	-	-
Mid Mountain Shaft-Shaft Drilling	1/1/2032	12/31/2032	6	314	10	-	-	-	2.62	-	-
Mid Mountain Shaft-Shaft Lining	1/1/2032	12/31/2032	6	314	10	-	-	-	2.62	-	-
Mid Mountain Shaft-Cavern and Adit	1/1/2033	12/31/2033	6	313	10	-	-	-	2.62	-	-
Van Nuys Metrolink Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	-	-	-	2.62	-	-
Van Nuys Metrolink Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	-	-	-	2.62	-	-
Van Nuys Metrolink Station-Grading	4/1/2029	6/30/2029	6	78	10	-	-	-	2.62	-	-
Van Nuys Metrolink Station-Drainage	4/1/2029	7/31/2029	6	104	10	-	-	-	2.62	-	-
Van Nuys Metrolink Station-SOE	10/1/2029	3/31/2030	6	156	10	-	-	-	2.62	-	-
Van Nuys Metrolink Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	-	-	-	2.62	-	-
Van Nuys Metrolink Station-Station Construction	1/1/2033	1/31/2036	6	965	10	-	-	-	2.62	-	-
Van Nuys Metrolink Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	220133	5.05	0.05	2.62	0.13	0.0066
Van Nuys Metrolink Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	-	-	-	2.62	-	-
Metro G Line Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	-	-	-	2.62	-	-
Metro G Line Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	-	-	-	2.62	-	-
Metro G Line Station-Grading	4/1/2029	6/30/2029	6	78	10	-	-	-	2.62	-	-
Metro G Line Station-Drainage	4/1/2029	7/31/2029	6	104	10	-	-	-	2.62	-	-
Metro G Line Station-SOE	10/1/2029	3/31/2030	6	156	10	-	-	-	2.62	-	-
Metro G Line Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	-	-	-	2.62	-	-
Metro G Line Station-Station Construction	3/1/2033	2/29/2036	6	940	10	-	-	-	2.62	-	-
Metro G Line Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	109781	2.52	0.02	2.62	0.06	0.0033
Metro G Line Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	-	-	-	2.62	-	-
Ventura Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	-	-	-	2.62	-	-
Ventura Blvd Station-Site Preparation/Demolition	4/1/2029	7/31/2029	6	104	10	-	-	-	2.62	-	-
Ventura Blvd Station-Grading	4/1/2029	7/31/2029	6	104	10	-	-	-	2.62	-	-
Ventura Blvd Station-Drainage	4/1/2029	6/30/2030	6	390	10	-	-	-	2.62	-	-
Ventura Blvd Station-SOE	7/1/2030	12/31/2030	6	158	10	-	-	-	2.62	-	-
Ventura Blvd Station-Station Excavation	1/1/2031	9/30/2031	6	234	10	-	-	-	2.62	-	-
Ventura Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	-	-	-	2.62	-	-
Ventura Blvd Station-Final Roadway Construction	3/1/2036	6/30/2036	6	104	10	145956	3.35	0.03	2.62	0.08	0.0044
Ventura Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	-	-	-	2.62	-	-
UCLA Station-Utility Relocation	4/1/2029	9/30/2030	6	469	10	-	-	-	2.62	-	-
UCLA Station-Site Preparation/Demolition	4/1/2029	9/30/2030	6	469	10	-	-	-	2.62	-	-
UCLA Station-Grading	4/1/2029	6/30/2029	6	78	10	-	-	-	2.62	-	-
UCLA Station-Drainage	4/1/2029	12/31/2029	6	235	10	-	-	-	2.62	-	-
UCLA Station-SOE	10/1/2029	3/31/2030	6	156	10	-	-	-	2.62	-	-
UCLA Station-Station Excavation	4/1/2030	3/31/2031	6	313	10	-	-	-	2.62	-	-
UCLA Station-Station Construction	4/1/2034	3/31/2037	6	939	10	-	-	-	2.62	-	-
UCLA Station-Final Roadway Construction	10/1/2036	3/31/2037	6	156	10	62312	1.43	0.01	2.62	0.02	0.0019
UCLA Station-Station Finishes and Testing	4/1/2036	3/31/2037	6	313	10	-	-	-	2.62	-	-

Sepulveda Transit Corridor Project - ALTERNATIVE 6

PAVING OFF-GASSING (ONSITE)

Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	Paved Area (SF)	Paved Area (Acres)	Paved Area (Acres) / day	Off-Gassing EF (lb/acre)[1]	Daily ROG Emissions (lb/day)[2]	Total ROG Emissions (tons)[2]
Wilshire Blvd (Metro D Line) Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	-	-	-	2.62	-	-
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	-	-	-	2.62	-	-
Wilshire Blvd (Metro D Line) Station-Grading	4/1/2029	6/30/2029	6	78	10	-	-	-	2.62	-	-
Wilshire Blvd (Metro D Line) Station-Drainage	4/1/2029	3/31/2030	6	312	10	-	-	-	2.62	-	-
Wilshire Blvd (Metro D Line) Station-SOE	10/1/2029	5/31/2030	6	209	10	-	-	-	2.62	-	-
Wilshire Blvd (Metro D Line) Station-Station Excavation	4/1/2030	6/30/2031	6	391	10	-	-	-	2.62	-	-
Wilshire Blvd (Metro D Line) Station-Station Construction	3/1/2033	2/29/2036	6	940	10	-	-	-	2.62	-	-
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	16628	0.38	0.00	2.62	0.01	0.0005
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	-	-	-	2.62	-	-
Santa Monica Blvd Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	-	-	-	2.62	-	-
Santa Monica Blvd Station-Site Preparation/Demolition	4/1/2029	9/30/2029	6	156	10	-	-	-	2.62	-	-
Santa Monica Blvd Station-Grading	4/1/2029	6/30/2029	6	78	10	-	-	-	2.62	-	-
Santa Monica Blvd Station-Drainage	4/1/2029	7/31/2029	6	104	10	-	-	-	2.62	-	-
Santa Monica Blvd Station-SOE	10/1/2029	3/31/2030	6	156	10	-	-	-	2.62	-	-
Santa Monica Blvd Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	-	-	-	2.62	-	-
Santa Monica Blvd Station-Station Construction	3/1/2033	2/29/2036	6	940	10	-	-	-	2.62	-	-
Santa Monica Blvd Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	80148	1.84	0.02	2.62	0.05	0.0024
Santa Monica Blvd Station-Station Finishes and Testing	3/1/2035	2/29/2036	6	314	10	-	-	-	2.62	-	-
Metro E Line (Expo)/Bundy Station-Utility Relocation	4/1/2029	9/30/2029	6	156	10	-	-	-	2.62	-	-
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	4/1/2029	6/30/2029	6	78	10	-	-	-	2.62	-	-
Metro E Line (Expo)/Bundy Station-Grading	4/1/2029	6/30/2029	6	78	10	-	-	-	2.62	-	-
Metro E Line (Expo)/Bundy Station-Drainage	4/1/2029	7/31/2029	6	104	10	-	-	-	2.62	-	-
Metro E Line (Expo)/Bundy Station-SOE	10/1/2029	9/30/2030	6	313	10	-	-	-	2.62	-	-
Metro E Line (Expo)/Bundy Station-Station Excavation	4/1/2030	12/31/2030	6	236	10	-	-	-	2.62	-	-
Metro E Line (Expo)/Bundy Station-Station Construction	1/1/2033	1/31/2036	6	965	10	-	-	-	2.62	-	-
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	2/1/2036	5/31/2036	6	104	10	205485	4.72	0.05	2.62	0.12	0.0062
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	2/1/2035	1/31/2036	6	313	10	-	-	-	2.62	-	-
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	-	-	-	2.62	-	-
Vanowen St/Van Nuys Blvd TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	-	-	-	2.62	-	-
Vanowen St/Van Nuys Blvd TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	-	-	-	2.62	-	-
Magnolia TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	-	-	-	2.62	-	-
Magnolia TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	-	-	-	2.62	-	-
Magnolia TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	-	-	-	2.62	-	-
Mid Mountain Shaft TPSS-Site Preparation/Demolition	5/1/2031	6/30/2031	5	43	8	-	-	-	2.62	-	-
Mid Mountain Shaft TPSS-Foundation Construction	5/1/2035	6/30/2035	5	44	8	-	-	-	2.62	-	-
Mid Mountain Shaft TPSS-TPSS Installation	3/1/2036	3/31/2036	5	21	8	-	-	-	2.62	-	-
OMSF-Site Preparation/Demolition	2/1/2033	7/31/2033	5	129	8	-	-	-	2.62	-	-
OMSF-Grading	2/1/2033	7/31/2033	5	129	8	-	-	-	2.62	-	-
OMSF-Building Construction	5/1/2034	8/31/2035	5	350	8	-	-	-	2.62	-	-
OMSF-Pavements	11/1/2033	4/30/2034	5	129	8	566278	13.00	0.10	2.62	0.26	0.0170
OMSF-Drainage/Utilties	5/1/2033	10/31/2033	5	131	8	-	-	-	2.62	-	-
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	-	-	-	2.62	-	-

Notes:

1. Emission factor based on CalEEMod default value.
2. Emissions calculated in accordance with CalEEMod methodology.

Sepulveda Transit Corridor Project - ALTERNATIVE 6

CONCRETE BATCH PLANT FUGITIVE DUST (ONSITE)

								Batch Plant EF (lb/CY)						Daily Emissions (lb/day)						Total Emissions (tons)					
Phase Name	**Start Date**	**End Date**	**Workdays per Week**	**Total Workdays**	**Hours per Workday**	**Concrete Required (CY)**	**Concrete Throughput (CY/day)**	**PM_{10} Fugitive**	**PM_{10} Exhaust**	**PM_{10} Total**	**$PM_{2.5}$ Fugitive**	**$PM_{2.5}$ Exhaust**	**$PM_{2.5}$ Total**	**PM_{10} Fugitive**	**PM_{10} Exhaust**	**PM_{10} Total**	**$PM_{2.5}$ Fugitive**	**$PM_{2.5}$ Exhaust**	**$PM_{2.5}$ Total**	**PM_{10} Fugitive**	**PM_{10} Exhaust**	**PM_{10} Total**	**$PM_{2.5}$ Fugitive**	**$PM_{2.5}$ Exhaust**	**$PM_{2.5}$ Total**
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	352,360	281	0.0172	-	0.0172	0.0028	-	0.0028	4.82	-	4.82	0.78	-	0.78	3.0217	-	3.0217	0.4874	-	0.4874

	Emission Factors-Controlled (lb pollutant/CY Concrete)[5]	
Batch Plant Process	**PM_{10}**	**$PM_{2.5}$**
Aggregate Delivery to Ground Storage[1]	0.0031	5.00E-04
Sand Delivery to Ground Storage[1]	0.0007	1.13E-04
Aggregate Transfer to Conveyor[1]	0.0031	5.00E-04
Sand Transfer to Conveyor[1]	0.0007	1.13E-04
Aggregate Transfer to Elevated Storage[1]	0.0031	5.00E-04
Sand Transfer to Elevated Storage[1]	0.0007	1.13E-04
Cement Delivery to Silo[1]	0.0001	1.61E-05
Cement Supplement Delivery to Silo[1]	0.0003	4.84E-05
Weigh Hopper Loading[1]	0.0038	6.13E-04
Central Mixing[2]	0.0016	2.50E-04
Total EF	**0.0172**	**0.0028**

Uncontrolled Truck Mixing EFs[4]

PM_{10}	**$PM_{2.5}$**	**$PM_{2.5}/PM_{10}$**
0.310	0.050	16%

PM2.5 EF is 16% of PM10 EF

	lb PM10 /ton of cement and cement supplement[5]	**Conversion Factor**	**lb PM10/CY Concrete**
Central Mixer EF[3]	0.0055	0.282	0.0016

Notes:

1. USEPA 2006, AP-42-11.12 Concrete Batching, Table 11.12-6
2. USEPA 2006, AP-42-11.12 Concrete Batching, Table 11.12-2
3. USEPA 2006, AP-42-11.12-Page 11.12-9
4. USEPA 2006, AP-42-11.12 Concrete Batching, Table 11.12-3-Based on Uncontrolled EFs
5. Assuming Mixer Loading will have dust controls, thus, the EF is based on a controlled EF for mixer loading (central mix).

Sepulveda Transit Corridor Project - ALTERNATIVE 6

CONCRETE BATCH PLANT WIND BLOWN DUST FROM STORAGE PILES (ONSITE)

										Storage Pile EF (lb/acre/day)						Daily Emissions (lb/day)						Total Emissions (tons)					
Phase Name	Start Date	End Date	Workdays per Week	Total Workdays	Hours per Workday	# of Storage Piles[3]	Storage Pile Area (acres)	Storage Pile Height (ft)	Total Storage Pile Area (acres)	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total
Precast Yard-Concrete Activity	1/1/2030	12/31/2033	6	1253	10	4	0.50	32	2	0.77	-	0.77	0.12	-	0.12	1.53	-	1.53	0.23	-	0.23	0.96	-	0.96	0.15	-	0.15

Wind Blown Emission Factors[1]

	PM_{10}	$PM_{2.5}$
EF (lb/day/acre)	***0.77***	***0.12***
s (silt content of material (weight %))	2.6	2.6
f (% of time the unobstructed wind speed is greater than 12 mph (5.36 m/s) at the mean pile height)[2]	7.8	7.8

Emission Factor Equations[1]

$$E_{PM10} = 0.85\ (s/1.5)\ (f/15)$$
$$E_{PM2.5} = 0.13\ (s/1.5)\ (f/15)$$

**Assuming mean pile height is equivalent to anemometer height of meteorological station.*

1. Countess Environmental, WRAP Fugitive Dust Handbook-Section 9.3

2. f for the project is based on the wind speed class distribution for the Van Nuys Meteorological Station. At this station, 7.8% of wind speeds were greater than 5.70 m/s (12.7 mph) throughout the meteorological period (2012-2016). Although f is based on wind speeds of 12 mph, the wind dataset only had categories for 5.7 m/s and greater. The meteorological site's anemometer height is approximately 10 meters (32 feet), therefore, an 'f' of 7.8% is valid for a storage pile height of up to 32 feet.

3. The number of storage piles assumes 2 piles for sand and 2 piles for coarse aggregate.

Sepulveda Transit Corridor Project - ALTERNATIVE 6

Alternative 6 Tunneling Electricity Consumption		Tunnel Boring Machine (TBM)			Conveyors				Other									
Mining Site	**Tunnel Length (mi)**	**# of TBMs**	**TBM Power Rating (MW)**	**Total TBM Power Rating (MW)**	**# of Conveyors**	**Conveyor Power Rating (MW/mi)**	**Conveyor Length (mi)**	**Total Conveyor Power Rating (MW)**	**Other Power Rating (MW)**	**Tunnel Segment Power Rating (MW)**	**Buffer (%)**	**Refined Total Tunnel Segment Power Rating (MW)**	**Tunneling Duration (days)[1]**	**Avg Daily Usage (hours/day)[1]**	**Total Tunneling Activity Duration (hours)**	**Total Electricity Consumption (MWh)**	**LADWP CO_2e Intensity Factor (lb/MWh)[2]**	**Total GHG Emissions ($MTCO_2e$)**
Bundy Station	2.8 miles, soft ground TBM	2	4.0	8.00	1	0.60	2.80	1.68	0.60	10.28	26%	13.00	366	20	7,320	95,160	567	24,473.93
Ventura Station	5.5 miles, rock TBM	2	5.5	11.00	1	0.60	5.50	3.30	0.60	14.90	28%	19.00	758	20	15,160	288,040	567	74,080.20
Metrolink Station	3.7 miles, soft ground	2	4.0	8.00	1	0.60	3.70	2.22	0.60	10.82	29%	14.00	314	20	6,280	87,920	567	22,611.90
															Total	**471,120**	567	**121,166.0**

Notes:

1. Tunneling duration and daily usage is based on data for the "Tunnel Boring/Tunneling" phase for each segment from the construction datasheet.
2. CO_2e intensity factor based on LADWP's 2022 Power Mix Content Label.

lb = pound

MWh = Megawatt-hours

$MTCO_2e$ = metric tons of carbon dioxide equivalent

Sepulveda Transit Corridor Project - ALTERNATIVE 6

Construction Electricity Consumption-Portable Offices

Electricity Consumption for 1 Portable Office[1,2]

			Annual		Monthly	
Land Use Type	Land Use Subtype in CalEEMod	Portable Office Area (SF)	Annual Electricity Consumption per Portable Office (kWh/year)	Annual GHG Emissions per Portable Office ($MTCO_2e$/year)	Monthly Electricity Consumption per Portable Office (kWh/month)	Monthly GHG Emissions per Portable Office ($MTCO_2e$/month)
Commercial	General Office Building	720	11,292.16	2.90	941.01	0.24

Construction GHG Emissions per Project Alternative[3]

Alternative	Number of Portable Offices	Monthly GHG Emissions per Portable Office ($MTCO_2e$/month)	Total Construction Duration (months)	Total GHG Emissions ($MTCO_2e$)
Alternative 6	3	0.24	97.4	70.7

Construction Electricity Consumption per Project Alternative[3]

Alternative	Number of Portable Offices	Monthly Electricity Consumption per Portable Office (kWh/month)	Total Construction Duration (months)	Total Electricity Consumption (kWh)	Total Electricity Consumption (MWh)
Alternative 6	3	941.01	97.4	274869.93	274.87

Notes:

1. CalEEMod was used to estimate electricity consumption from portable offices.
2. Monthly values estimated by dividing annual values by 12 months.
3. It was assumed each Project Alternative would have 3 portable offices used throughout the construction duration.

SF = square feet

kWh = kilowatt-hour

MWh = Megawatt-hour

$MTCO_2e$ = metric tons of carbon dioxide equivalent

Construction Localized Emissions Analysis

Alternative 6 Construction-Valley (North) Components

Maximum Daily Localized Emissions

		Daily Emissions (lb/day)[1]			
Component ID	**Component Description**	**NOX**	**CO**	**PM10**	**PM2.5**
Segment 2-Mountain_6_20	Segment 2-Mountain Construction-6 Days per week/20 Hours per day	13.65	22.89	4.80	0.65
Segment 3-Valley_6_20	Segment 3-Valley Construction-6 Days per week/20 Hours per day	24.83	34.29	6.37	0.84
Segment 3-TBM Demob_6_20	Segment 3-TBM Demob Construction-6 Days per week/20 Hours per day	-	-	-	-
Van Nuys Metrolink Station_6_10	Van Nuys Metrolink StationConstruction-6 Days per week/10 Hours per day	18.34	36.50	-	-
Metro G Line Station_6_10	Metro G Line Station Construction-6 Days per week/10 Hours per day	18.36	36.51	-	-
Ventura Blvd Station_6_10	Ventura Blvd Station Construction-6 Days per week/10 Hours per day	18.34	36.50	4.07	0.55
Vanowen TPSS_5_8	Vanowen TPSS Construction-5 Days per week/8 Hours per day	1.56	1.77	-	-
Magnolia TPSS_5_8	Magnolia TPSS Construction-5 Days per week/8 Hours per day	1.56	1.77	-	-
OMSF_5_8	MSF Construction-5 Days per week/8 Hours per day	17.69	33.17	-	-
Precast Yard_6_10	Precast Construction-6 Days per week/10 Hours per day	-	-	7.71	1.24
	Component Name	**NOX**	**CO**	**PM10**	**PM2.5**
	Segment 2-Mountain	13.6	22.9	4.8	0.7
	Segment 3-Valley	24.8	34.3	6.4	0.8
	Van Nuys Metrolink Station	18.3	36.5	-	-
	Metro G Line Station	18.4	36.5	-	-
	Ventura Blvd Station	18.3	36.5	4.1	0.6
	Vanowen St/Van Nuys Blvd TPSS	1.6	1.8	-	-
	Magnolia TPSS	1.6	1.8	-	-
	MSF	17.7	33.2	-	-
	Precast Yard	-	-	7.7	1.2
	Components In Proximity to Each Other				
	Van Nuys Metrolink Station + MSF + Precast Yard	36.0	69.7	7.7	1.2
	Segment 2 + Ventura Blvd Station	32.0	59.4	8.9	1.2
	Peak Daily Localized Emissions[2]	**36.0**	**69.7**	**8.9**	**1.2**
	SCAQMD Localized Significance Threshold[3]	114	786	7	4
	Exceeds Threshold?	No	No	Yes	No

Construction Localized Emissions Analysis

Alternative 6 Construction-Westside (South) Components

Maximum Daily Localized Emissions

Component ID	Component Description	Daily Emissions (lb/day)[1] NOX	CO	PM10	PM2.5
Segment 1-Westside_6_20	Segment 1-Westside Construction-6 Days per week/20 Hours per day	-	-	-	-
Segment 1-TBM Demob_6_20	Segment 1-TBM Demob Construction-6 Days per week/20 Hours per day	-	-	-	-
Segment 2-Mountain-TBM Demob_6_20	Segment 2-Mountain-TBM Demob Construction-6 Days per week/20 Hours per day	-	-	-	-
UCLA Station_6_10	UCLA Station Construction-6 Days per week/10 Hours per day	25.1	60.0	1.9	0.7
Wilshire Blvd (Metro D Line) Station_6_10	Wilshire Blvd (Metro D Line) Station Construction-6 Days per week/10 Hours per day	25.1	60.0	2.2	0.7
Santa Monica Blvd Station_6_10	Santa Monica Blvd Station Construction-6 Days per week/10 Hours per day	25.1	60.0	15.7	2.8
Metro E Line (Expo)/Bundy Station_6_10	Metro E Line (Expo)/Bundy Station Construction-6 Days per week/10 Hours per day	25.1	60.0	2.5	0.8
	Component Name	**NOX**	**CO**	**PM10**	**PM2.5**
	Segment 1-Westside	-	-	-	-
	Segment 2-Mountain	-	-	-	-
	UCLA Station	25.1	60.0	1.9	0.7
	Wilshire Blvd (Metro D Line) Station	25.1	60.0	2.2	0.7
	Santa Monica Blvd Station	25.1	60.0	15.7	2.8
	Metro E Line (Expo)/Bundy Station	25.1	60.0	2.5	0.8
	Components In Proximity to Each Other				
	Not Applicable				
	Peak Daily Localized Emissions[2]	**25.1**	**60.0**	**15.7**	**2.8**
	SCAQMD Localized Significance Threshold[4]	147	827	6	4
	Exceeds Threshold?	No	No	Yes	No

Notes:

1. Daily emissions for each construction component represent the contribution to the maximum daily localized emissions in the Valley or Westside.
2. Peak daily emissions are based on components in proximity to each other that may affect similar nearby receptors.
3.LST values are based on a 2-acre site with a 25-meter receptor distance in SRA 7 East San Fernando Valley.
4.LST values are based on a 2-acre site with a 25-meter receptor distance in SRA 2 Northwest Coastal LA County.

Portable Office Electricity Consumption-CalEEMod Output

STC_CSTN_Portable_Office Detailed Report

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Data Field	Value
Project Name	STC_CSTN_Portable_Office
Operational Year	2022
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	18.6
Location	34.16695915520559, -118.47346326624756
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	3843
EDFZ	17
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.24

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
General Office Building	0.72	1000sqft	0.02	720	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.02	0.02	< 0.005	0.03	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.36	17.7	18.0	0.04	< 0.005	< 0.005	18.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	17.5	17.9	0.04	0.00	< 0.005	18.8
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.02	0.02	< 0.005	0.02	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.36	17.6	18.0	0.04	< 0.005	< 0.005	18.9
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.06	2.92	2.98	0.01	< 0.005	< 0.005	3.13

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	0.02	0.02	< 0.005	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.13	0.13	< 0.005	< 0.005	—	0.13
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	17.5	17.5	0.00	0.00	—	17.5
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.36	0.00	0.36	0.04	0.00	—	1.26
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Total	0.02	0.02	< 0.005	0.03	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.36	17.7	18.0	0.04	< 0.005	< 0.005	18.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	17.5	17.5	0.00	0.00	—	17.5
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.36	0.00	0.36	0.04	0.00	—	1.26
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Total	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	17.5	17.9	0.04	0.00	< 0.005	18.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	0.02	0.02	< 0.005	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.09	0.09	< 0.005	< 0.005	—	0.09
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	17.5	17.5	0.00	0.00	—	17.5
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.36	0.00	0.36	0.04	0.00	—	1.26
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Total	0.02	0.02	< 0.005	0.02	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.36	17.6	18.0	0.04	< 0.005	< 0.005	18.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.01	0.01	< 0.005	< 0.005	—	0.01

Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	2.90	2.90	0.00	0.00	—	2.90
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Waste	—	—	—	—	—	—	—	—	—	—	—	0.06	0.00	0.06	0.01	0.00	—	0.21
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Total	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.06	2.92	2.98	0.01	< 0.005	< 0.005	3.13

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	17.5	17.5	0.00	0.00	—	17.5
Total	—	—	—	—	—	—	—	—	—	—	—	—	17.5	17.5	0.00	0.00	—	17.5
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	17.5	17.5	0.00	0.00	—	17.5
Total	—	—	—	—	—	—	—	—	—	—	—	—	17.5	17.5	0.00	0.00	—	17.5
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	2.90	2.90	0.00	0.00	—	2.90
Total	—	—	—	—	—	—	—	—	—	—	—	—	2.90	2.90	0.00	0.00	—	2.90

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural Coatings	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.01	0.01	< 0.005	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.13	0.13	< 0.005	< 0.005	—	0.13
Total	0.02	0.02	< 0.005	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.13	0.13	< 0.005	< 0.005	—	0.13
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.01	0.01	< 0.005	< 0.005	—	0.01
Total	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.01	0.01	< 0.005	< 0.005	—	0.01

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.36	0.00	0.36	0.04	0.00	—	1.26
Total	—	—	—	—	—	—	—	—	—	—	—	0.36	0.00	0.36	0.04	0.00	—	1.26
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.36	0.00	0.36	0.04	0.00	—	1.26
Total	—	—	—	—	—	—	—	—	—	—	—	0.36	0.00	0.36	0.04	0.00	—	1.26
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.06	0.00	0.06	0.01	0.00	—	0.21
Total	—	—	—	—	—	—	—	—	—	—	—	0.06	0.00	0.06	0.01	0.00	—	0.21

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	1,080	360	—

5.10.3. Landscape Equipment

Season	Unit	Value

Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
General Office Building	11,292	567	0.0000	0.0000	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Office Building	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Office Building	0.67	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced

General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	15.4	annual days of extreme heat
Extreme Precipitation	7.15	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	2	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	2	1	1	3
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	82.6
AQ-PM	89.0
AQ-DPM	64.4
Drinking Water	83.1
Lead Risk Housing	—
Pesticides	51.5
Toxic Releases	62.0
Traffic	99.3
Effect Indicators	—
CleanUp Sites	25.6
Groundwater	4.42
Haz Waste Facilities/Generators	40.1
Impaired Water Bodies	91.9
Solid Waste	0.00
Sensitive Population	—
Asthma	48.5
Cardio-vascular	41.0

Low Birth Weights	—
Socioeconomic Factor Indicators	—
Education	—
Housing	—
Linguistic	—
Poverty	0.55
Unemployment	—

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	—
Employed	—
Median HI	—
Education	—
Bachelor's or higher	—
High school enrollment	—
Preschool enrollment	—
Transportation	—
Auto Access	—
Active commuting	—
Social	—
2-parent households	—
Voting	—
Neighborhood	—
Alcohol availability	—

Park access	—
Retail density	—
Supermarket access	—
Tree canopy	—
Housing	—
Homeownership	—
Housing habitability	—
Low-inc homeowner severe housing cost burden	—
Low-inc renter severe housing cost burden	—
Uncrowded housing	—
Health Outcomes	—
Insured adults	—
Arthritis	30.2
Asthma ER Admissions	88.1
High Blood Pressure	65.9
Cancer (excluding skin)	11.3
Asthma	72.9
Coronary Heart Disease	37.1
Chronic Obstructive Pulmonary Disease	53.7
Diagnosed Diabetes	70.5
Life Expectancy at Birth	0.0
Cognitively Disabled	85.7
Physically Disabled	77.4
Heart Attack ER Admissions	86.6
Mental Health Not Good	72.2
Chronic Kidney Disease	79.8
Obesity	67.3

Pedestrian Injuries	0.0
Physical Health Not Good	64.0
Stroke	45.2
Health Risk Behaviors	—
Binge Drinking	48.9
Current Smoker	73.9
No Leisure Time for Physical Activity	78.5
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	68.4
Elderly	84.2
English Speaking	0.0
Foreign-born	0.0
Outdoor Workers	98.2
Climate Change Adaptive Capacity	—
Impervious Surface Cover	87.1
Traffic Density	0.0
Traffic Access	53.4
Other Indices	—
Hardship	0.0
Other Decision Support	—
2016 Voting	0.0

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	—

Healthy Places Index Score for Project Location (b)	—
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Characteristics: Utility Information	CO2e intensity factor based on LADWP's power mix for 2022.
Operations: Vehicle Data	Only estimating electricity consumption for portable construction offices.
Operations: Energy Use	Only estimating electricity consumption for portable construction offices.
Operations: Water and Waste Water	Only estimating electricity consumption for portable construction offices.

Appendix A-6.2: Alternative 6 Operational Emissions

Appendix A-6.2: Alternative 6 Operational Emissions

Operations Regional and Localized Daily Criteria Pollutant Emission Summaries

Daily Regional (Onsite + Offsite) Operational AQ Emissions

Alternative 6 (2045) Compared to No Project Alternative (2045)

	Daily Emissions (lb/day)									
Source Category	**ROG**	**NO_X**	**CO**	**SO_X**	**PM_{10} Fugitive**	**PM_{10} Exhaust**	**PM_{10} Total**	**$PM_{2.5}$ Fugitive**	**$PM_{2.5}$ Exhaust**	**$PM_{2.5}$ Total**
MSF Area Sources[1]	3.66	0.04	4.75	0.00	0.00	0.01	0.01	0.00	0.01	0.01
Stations Area Sources[2]	18.10	0.92	108.82	0.01	0.00	0.19	0.19	0.00	0.15	0.15
Mobile-VMT Analysis	8976.17	88818.49	622501.61	3482.64	406357.87	2044.31	408402.18	103424.16	1933.61	105357.77
Mobile-Employee Travel	1.44	3.28	20.42	0.09	10.72	0.06	10.78	2.73	0.05	2.78
Emergency Generators[3]	-	-	-	-	-	-	-	-	-	-
Alternative 6 Total Emissions	**8,999.37**	**88,822.73**	**622,635.61**	**3,482.74**	**406,368.60**	**2,044.57**	**408,413.16**	**103,426.89**	**1,933.81**	**105,360.70**
No Project Alternative Emissions[5]	8,987.16	88,927.26	623,263.93	3,486.90	406,855.50	2,046.81	408,902.31	103,550.81	1,935.97	105,486.79
Alternative 6 Net Change in Emissions	**12.21**	**-104.53**	**-628.32**	**-4.16**	**-486.90**	**-2.25**	**-489.15**	**-123.92**	**-2.16**	**-126.09**
SCAQMD Regional Significance Thresholds	55	55	550	150	N/A	N/A	150	N/A	N/A	55
Exceeds Threshold?	**No**	**No**	**No**	**No**			**No**			**No**

Notes:

MSF = Maintenance and Storage Facility

N/A = Not Applicable, no threshold for this pollutant.

1. Total emissions from MSF.
2. Total emissions from all stations.
3. Emergency generators were not required.
4. In accordance with City of LA Municipal Code, all new buildings would be required to have all electric appliances for water and space heating, therefore no natural gas would be consumed during operations.
5. No Project Alternative emissions are related to mobile sources.

Daily Regional (Onsite + Offsite) Operational AQ Emissions

Alternative 6 (2045) Compared to Baseline (2021)

	Daily Emissions (lb/day)									
Source Category	**ROG**	**NO_X**	**CO**	**SO_X**	**PM_{10} Fugitive**	**PM_{10} Exhaust**	**PM_{10} Total**	**$PM_{2.5}$ Fugitive**	**$PM_{2.5}$ Exhaust**	**$PM_{2.5}$ Total**
MSF Area Sources[1]	3.66	0.04	4.75	0.00	0.00	0.01	0.01	0.00	0.01	0.01
Stations Area Sources[2]	18.10	0.92	108.82	0.01	0.00	0.19	0.19	0.00	0.15	0.15
Mobile-VMT Analysis	8976.17	88818.49	622501.61	3482.64	406357.87	2044.31	408402.18	103424.16	1933.61	105357.77
Mobile-Employee Travel	1.44	3.28	20.42	0.09	10.72	0.06	10.78	2.73	0.05	2.78
Emergency Generators[3]	-	-	-	-	-	-	-	-	-	-
Alternative 6 Total Emissions	**8,999.37**	**88,822.73**	**622,635.61**	**3,482.74**	**406,368.60**	**2,044.57**	**408,413.16**	**103,426.89**	**1,933.81**	**105,360.70**
Baseline Emissions[6]	27,490.34	222,015.82	1,219,500.95	3,920.27	325,836.60	3,379.36	329,215.96	82,877.61	3,173.58	86,051.19
Alternative 6 Net Change in Emissions	**-18,490.97**	**-133,193.09**	**-596,865.35**	**-437.53**	**80,531.99**	**-1,334.79**	**79,197.20**	**20,549.28**	**-1,239.77**	**19,309.51**
SCAQMD Regional Significance Thresholds	55	55	550	150	N/A	N/A	150	N/A	N/A	55
Exceeds Threshold?	**No**	**No**	**No**	**No**			**Yes**			**Yes**

Notes:

MSF = Maintenance and Storage Facility

N/A = Not Applicable, no threshold for this pollutant.

1. Total emissions from MSF.
2. Total emissions from all stations.
3. Emergency generators were not required.
4. In accordance with City of LA Municipal Code, all new buildings would be required to have all electric appliances for water and space heating, therefore no natural gas would be consumed during operations.
5. It should be noted that the exceedances for PM10 and PM2.5 are a function of increased fugitive dust emissions related directly to growth in VMT from Baseline 2019 to Future 2045. Dust emission factors for tire wear, brake wear, and paved roads stay relatively constant over the 2019-2045 timeframe compared to engine process emissions factors which drastically decrease over this same time period due to compliance with vehicle emission standards.
6. Baseline emissions are related to mobile sources.

Daily Localized (Onsite) Operational AQ Emissions

Alternative 6 (2045)

	Daily Emissions (lb/day)			
Source Category	**NO_X**	**CO**	**PM_{10} Total**	**$PM_{2.5}$ Total**
MSF Area Sources[1]	0.04	4.75	0.01	0.01
Stations Area Sources[2]	0.92	108.82	0.19	0.15
Emergency Generators[3]	-	-	-	-
Alternative 6 Total Emissions	**0.96**	**113.57**	**0.20**	**0.15**
SCAQMD Localized Significance Thresholds[4]	172	1,434	3	2
Exceeds Threshold?	**No**	**No**	**No**	**No**

Notes:

MSF = Maintenance and Storage Facility

N/A = Not Applicable, no threshold for this pollutant.

1. Total emissions from main MSF and e-Bus MSF.

2. Total emissions from all stations.

3. Emergency generators were not required.

4. The components of the alternative (MSF and stations) are located at different locations along the alternative alignment, therefore it was conservatively assumed that the total localized emissions from all components would occur within a 5-acre site, although in reality, the total acreage of all these components is far greater than 5 acres. The LSTs were developed for sites less than 5 acres, however, the LSTs were used to conduct a screening-level analysis for projects greater than 5 acres to determine if further refined analysis of local air quality impacts is required. Therefore, the LSTs for a 5-acre site were used to evaluate the alternative's local impacts. The localized analysis uses LST values based on a 5-acre site with a receptor distance of 25 meters. Also, because the components are located in different Source Receptor Areas (#2: North Coastal LA County & #7 East San Fernando Valley), the lowest LST values (i.e., strictest thresholds) between these SRAs were selected for each pollutant.

5. In accordance with City of LA Municipal Code, all new buildings would be required to have all electric appliances for water and space heating, therefore no natural gas would be consumed during operations.

6. In accordance with SCAQMD methodology, localized emissions do not include offsite sources such as mobile sources.

Localized Significance Threshold (LST) Values

		Operations LST Values for 5-Acre Site with 25 meter Receptor Distance			
Source Receptor Area (SRA) #	**SRA Name**	**NO_X**	**CO**	**PM_{10}**	**$PM_{2.5}$**
2	Northwest Coastal LA County	221	1,531	3	2
7	East San Fernando Valley	172	1,434	4	2
	Minimum LST Value	**172**	**1,434**	**3**	**2**

The components of the alternative (MSF and stations) are located at different locations along the alternative alignment, therefore it was conservatively assumed that the total localized emissions from all components would occur within a 5-acre site, although in reality, the total acreage of all these components is far greater than 5 acres. The LSTs were developed for sites less than 5 acres, however, the LSTs were used to conduct a screening-level analysis for projects greater than 5 acres to determine if further refined analysis of local air quality impacts is required. Therefore, the LSTs for a 5-acre site were used to evaluate the alternative's local impacts. The localized analysis uses LST values based on a 5-acre site with a receptor distance of 25 meters. Also, because the components are located in different Source Receptor Areas (#2: North Coastal LA County & #7 East San Fernando Valley), the lowest LST values (i.e., strictest thresholds) between these SRAs were selected for each pollutant.

Operations Annual Greenhouse Gas Emission Summaries

Annual GHG Emissions

Alternative 6 (2045) Compared to No Project Alternative (2045)

	Annual GHG Emissions ($MTCO_2e/yr$) by Component						
Source Category	**Track Alignment Electricity[1]**	**MSF[2]**	**Stations[3]**	**VMT Analysis**	**Employee Travel**	**Amortized Construction[4]**	**Total**
Area		2.22	50.93				53.15
Electricity	2,412.67	90.00	376.62				2,879.28
Mobile				57,118,782.43	1,540.30		57,120,322.73
Water		33.57	0.16				33.73
Waste		31.77					31.77
Refrigerants		0.04					0.04
Emergency Generators		-	-				0.00
Amortized Construction						7,055.19	7,055.19
Alternative 6 Total Emissions							57,130,375.9
No Project Alternative Emissions				**57,188,729.73**			**57,188,729.73**
Alternative 6 Net Change in Emissions							**-58,353.86**

Notes:

1. Electricity consumption values based on LA Metro Redline Fiscal Year 2022 data. Accounts for electricity consumption from traction power along the alignment and at stations.
2. Accounts for emissions related to MSF.
3. Accounts for emissions related to all stations.
4. Total construction emissions were amortized over the design lifetime of Alternative 6, which would be 100 years.
5. In accordance with City of LA Municipal Code, all new buildings would be required to have all electric appliances for water and space heating, therefore no natural gas would be consumed during operations.

6. No Project Alternative emissions are related to mobile sources.
7. Emergency generators were not required.

Annual GHG Emissions

Alternative 6 (2045) Compared to Baseline (2021)

	Annual GHG Emissions ($MTCO_2e/yr$) by Component						
Source Category	**Track Alignment Electricity[1]**	**MSF[2]**	**Stations[3]**	**VMT Analysis**	**Employee Travel**	**Amortized Construction[4]**	**Total**
Area		2.22	50.93				53.15
Electricity	2,412.67	90.00	376.62				2,879.28
Mobile				57,118,782.43	1,540.30		57,120,322.73
Water		33.57	0.16				33.73
Waste		31.77					31.77
Refrigerants		0.04					0.04
Emergency Generators		-	-				0.00
Amortized Construction						7,055.19	7,055.19
Alternative 6 Total Emissions							57,130,375.9
Baseline Emissions				**64,691,321.96**			**64,691,321.96**
Alternative 6 Net Change in Emissions							**-7,560,946.09**

Notes:

1. Electricity consumption values based on LA Metro Redline Fiscal Year 2022 data. Accounts for electricity consumption from traction power along the alignment and at stations.
2. Accounts for emissions related to MSF.
3. Accounts for emissions related to all stations.
4. Total construction emissions were amortized over the design lifetime of Alternative 6, which would be 100 years.
5. In accordance with City of LA Municipal Code, all new buildings would be required to have all electric appliances for water and space heating, therefore no natural gas would be consumed during operations.

6. Baseline emissions are related to mobile sources.
7. Emergency generators were not required.

Mobile Emissions

Mobile Emissions-Alternative 6 (2045) Compared to No Project Alternative (2045)

Scenario	Analysis Year	Daily VMT	Annual VMT[2]	Daily Emissions (lb/day)													
				ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
No Project Alternative-VMT Analysis[1]	2045	568,557,200	197,289,348,400	8,987.2	88,927.3	623,263.9	3,486.9	406,855.5	2,046.8	408,902.3	103,550.8	1,936.0	105,486.8	358,320,962.1	3,957.5	16,514.6
Alternative 6-VMT Analysis[1]	2045	567,861,800	197,048,044,600	8,976.2	88,818.5	622,501.6	3,482.6	406,357.9	2,044.3	408,402.2	103,424.2	1,933.6	105,357.8	357,882,701.2	3,952.6	16,494.4
	Net Change	-695,400	-241,303,800	**-11.0**	**-108.8**	**-762.3**	**-4.3**	**-497.6**	**-2.5**	**-500.1**	**-126.7**	**-2.4**	**-129.0**	**-438,260.9**	**-4.8**	**-20.2**
Alternative 6-VMT from Employee Travel[3]	2045	14,984	5,199,275	1.4	3.3	20.4	0.1	10.7	0.06	10.8	2.7	0.05	2.8	9,632.9	0.2	0.5
			Alternative 6 Net Mobile Emissions	**-9.5**	**-105.5**	**-741.9**	**-4.2**	**-486.9**	**-2.4**	**-489.3**	**-123.9**	**-2.3**	**-126.2**	**-428,628.0**	**-4.7**	**-19.7**

Notes:

VMT = vehicle miles traveled

1. Daily VMT values from Project Traffic Study.

2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.

3. Employee VMT based on number of employees, daily trips, and CalEEMod trip length for Non-Residential Home-Work Trip.

Mobile Emissions-Alternative 6 (2045) Compared to No Project Alternative (2045)

				Annual Emissions (tons/year)										Annual Emissions (metric tons)			
Scenario	**Analysis Year**	**Daily VMT**	**Annual VMT[2]**	**ROG**	**NO_X**	**CO**	**SO_X**	**PM_{10} Fugitive**	**PM_{10} Exhaust**	**PM_{10} Total**	**$PM_{2.5}$ Fugitive**	**$PM_{2.5}$ Exhaust**	**$PM_{2.5}$ Total**	**CO_2**	**CH_4**	**N_2O**	**CO_2e**
No Project Alternative-VMT Analysis[1]	2045	568,557,200	197,289,348,400	1,559.3	15,428.9	108,136.3	605.0	70,589.4	355.1	70,944.6	17,966.1	335.9	18,302.0	56,398,551.2	622.9	2,599.3	57,188,729.7
Alternative 6-VMT Analysis[1]	2045	567,861,800	197,048,044,600	1,557.4	15,410.0	108,004.0	604.2	70,503.1	354.7	70,857.8	17,944.1	335.5	18,279.6	56,329,570.3	622.1	2,596.2	57,118,782.4
	Net Change	-695,400	-241,303,800	**-1.9**	**-18.9**	**-132.3**	**-0.7**	**-86.3**	**-0.4**	**-86.8**	**-22.0**	**-0.4**	**-22.4**	**-68,980.8**	**-0.8**	**-3.2**	**-69,947.3**
Alternative 6-VMT from Employee Travel[3]	2045	14,984	5,199,275	0.25	0.6	3.5	0.02	1.9	0.01	1.9	0.5	0.01	0.5	1,516.2	0.03	0.1	1,540.3
			Alternative 6 Net Mobile Emissions	**-1.7**	**-18.3**	**-128.7**	**-0.7**	**-84.5**	**-0.4**	**-84.9**	**-21.5**	**-0.4**	**-21.9**	**-67,464.7**	**-0.7**	**-3.1**	**-68,407.0**

Notes:

VMT = vehicle miles traveled

1. Daily VMT values from Project Traffic Study.

2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.

3. Employee VMT based on number of employees, daily trips, and CalEEMod trip length for Non-Residential Home-Work Trip.

Mobile Emissions-Alternative 6 (2045) Compared to Baseline (2021)

Scenario	Analysis Year	Daily VMT	Annual VMT[2]	Daily Emissions (lb/day)[5]												
				ROG	NO_x	CO	SO_x	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Baseline-VMT Analysis[1]	2021	456,869,300	158,533,647,100	27,490.3	222,015.8	1,219,501.0	3,920.3	325,836.6	3,379.4	329,216.0	82,877.6	3,173.6	86,051.2	405,050,918.1	11,947.9	18,987.9
Alternative 6-VMT Analysis[1]	2045	567,861,800	197,048,044,600	8,976.2	88,818.5	622,501.6	3,482.6	406,357.9	2,044.3	408,402.2	103,424.2	1,933.6	105,357.8	357,882,701.2	3,952.6	16,494.4
	Net Change[3]	110,992,500	38,514,397,500	**-18,514.2**	**-133,197.3**	**-596,999.3**	**-437.6**	**80,521.3**	**-1,335.0**	**79,186.2**	**20,546.5**	**-1,240.0**	**19,306.6**	**-47,168,216.9**	**-7,995.3**	**-2,493.5**
Alternative 6-VMT from Employee Travel[4]	2045	14,984	5,199,275	1.4	3.3	20.4	0.1	10.7	0.1	10.8	2.7	0.1	2.8	9,632.9	0.2	0.5
		Alternative 6 Net Mobile Emissions		**-18,512.7**	**-133,194.0**	**-596,978.9**	**-437.5**	**80,532.0**	**-1,335.0**	**79,197.0**	**20,549.3**	**-1,239.9**	**19,309.4**	**-47,158,584.0**	**-7,995.1**	**-2,493.0**

Notes:

VMT = vehicle miles traveled

1. Daily VMT values from Project Traffic Study.
2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
3. Increase in VMT related to growth from 2021 to 2045.
4. Employee VMT based on number of employees, daily trips, and CalEEMod trip length for Non-Residential Home-Work Trip.
5. Increase in fugitive emissions is directly related to increase in VMT. Dust emission factors for tire wear, brake wear, and paved roads stay relatively constant over the 2021-2045 timeframe compared to engine process emissions factors which drastically decrease over this same time period due to compliance with vehicle emission standards.

Mobile Emissions-Alternative 6 (2045) Compared to Baseline (2021)

Scenario	Analysis Year	Daily VMT	Annual VMT[2]	Annual Emissions (tons/year)[5]										Annual Emissions (metric tons)			
				ROG	NO_x	CO	SO_x	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Baseline-VMT Analysis[1]	2021	456,869,300	158,533,647,100	4,769.6	38,519.7	211,583.4	680.2	56,532.7	586.3	57,119.0	14,379.3	550.6	14,929.9	63,753,693.9	1,880.6	2,988.6	64,691,322.0
Alternative 6-VMT Analysis[1]	2045	567,861,800	197,048,044,600	1,557.4	15,410.0	108,004.0	604.2	70,503.1	354.7	70,857.8	17,944.1	335.5	18,279.6	56,329,570.3	622.1	2,596.2	57,118,782.4
	Net Change[3]	110,992,500	38,514,397,500	**-3,212.2**	**-23,109.7**	**-103,579.4**	**-75.9**	**13,970.4**	**-231.6**	**13,738.8**	**3,564.8**	**-215.1**	**3,349.7**	**-7,424,123.5**	**-1,258.4**	**-392.5**	**-7,572,539.5**
Alternative 6-VMT from Employee Travel[4]	2045	14,984	5,199,275	0.3	0.6	3.5	0.0	1.9	0.0	1.9	0.5	0.0	0.5	1,516.2	0.0	0.1	1,540.3
			Alternative 6 Net Mobile Emissions	**-3,212.0**	**-23,109.2**	**-103,575.8**	**-75.9**	**13,972.3**	**-231.6**	**13,740.7**	**3,565.3**	**-215.1**	**3,350.2**	**-7,422,607.4**	**-1,258.4**	**-392.4**	**-7,570,999.2**

Notes:

VMT = vehicle miles traveled

1. Daily VMT values from Project Traffic Study.
2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
3. Increase in VMT related to growth from 2021 to 2045.
4. Employee VMT based on number of employees, daily trips, and CalEEMod trip length for Non-Residential Home-Work Trip.
5. Increase in fugitive emissions is directly related to increase in VMT. Dust emission factors for tire wear, brake wear, and paved roads stay relatively constant over the 2021-2045 timeframe compared to engine process emissions factors which drastically decrease over this same time period due to compliance with vehicle emission standards.

Mobile Emissions-Baseline (2021)

Alternative	Analysis Year	Daily VMT (miles/day)[1]	Days per Year[2]	Annual VMT (miles/year)	Running Emission Factor (grams/mile)[3,4]												
					ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Baseline	2021	456,869,300	347	158,533,647,100	0.0273	0.220	1.211	0.004	0.323	0.003	0.327	0.082	0.003	0.085	402.145	0.012	0.019

Notes:

1. Daily VMT values from Project Traffic Study.

2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
Source: CARB, 2008. Climate Change Draft Scoping Plan Appendices, Volume II: Analysis and Documentation.

3. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.

4. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.

5. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. CO_2 = 1; CH_4 = 25; N_2O = 298

Mobile Emissions-Baseline (2021)

Alternative	Analysis Year	Daily VMT (miles/day)[1]	Days per Year[2]	Annual VMT (miles/year)	Daily Emissions (lb/day)												
					ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Baseline	2021	456,869,300	347	158,533,647,100	27,490.3	222,015.8	1,219,501.0	3,920.3	325,836.6	3,379.4	329,216.0	82,877.6	3,173.6	86,051.2	405,050,918.1	11,947.9	18,987.9

Notes:

1. Daily VMT values from Project Traffic Study.

2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
Source: CARB, 2008. Climate Change Draft Scoping Plan Appendices, Volume II: Analysis and Documentation.

3. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.

4. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.

5. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. CO_2 = 1; CH_4 = 25; N_2O = 298

Mobile Emissions-Baseline (2021)

					Annual Emissions (tons/year)										Annual Emissions (metric tons)[5]			
Alternative	Analysis Year	Daily VMT (miles/day)[1]	Days per Year[2]	Annual VMT (miles/year)	ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Baseline	2021	456,869,300	347	158,533,647,100	4,769.6	38,519.7	211,583.4	680.2	56,532.7	586.3	57,119.0	14,379.3	550.6	14,929.9	63,753,693.9	1,880.6	2,988.6	64,691,322.0

Notes:

1. Daily VMT values from Project Traffic Study.

2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
Source: CARB, 2008. Climate Change Draft Scoping Plan Appendices, Volume II: Analysis and Documentation.

3. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.

4. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.

5. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. CO_2 = 1; CH_4 = 25; N_2O = 298

Mobile Emissions-No Project Alternative (2045)					Running Emission Factor (grams/mile)[3,4]												
Alternative	Analysis Year	Daily VMT (miles/day)[1]	Days per Year[2]	Annual VMT (miles/year)	ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
No Project	2045	568,557,200	347	197,289,348,400	0.01	0.07	0.50	0.003	0.32	0.002	0.33	0.08	0.002	0.08	285.87	0.003	0.01

Notes:

1. Daily VMT values from Project Traffic Study.
2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.

Source: CARB, 2008. Climate Change Draft Scoping Plan Appendices, Volume II: Analysis and Documentation.

3. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.
4. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
5. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. $CO_2 = 1$; $CH_4 = 25$; $N_2O = 298$

Mobile Emissions-No Project Alternative (2045)

Alternative	Analysis Year	Daily VMT (miles/day)[1]	Days per Year[2]	Annual VMT (miles/year)	Daily Emissions (lb/day)												
					ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
No Project	2045	568,557,200	347	197,289,348,400	8987.2	88927.3	623263.9	3486.9	406855.5	2046.8	408902.3	103550.8	1936.0	105486.8	358320962.1	3957.5	16514.6

Notes:

1. Daily VMT values from Project Traffic Study.
2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
   Source: CARB, 2008. Climate Change Draft Scoping Plan Appendices, Volume II: Analysis and Documentation.
3. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.
4. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
5. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. $CO_2 = 1$; $CH_4 = 25$; $N_2O = 298$

Mobile Emissions-No Project Alternative (2045)					Annual Emissions (tons/year)										Annual Emissions (metric tons)[5]			
Alternative	Analysis Year	Daily VMT (miles/day)[1]	Days per Year[2]	Annual VMT (miles/year)	ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
No Project	2045	568,557,200	347	197,289,348,400	1559.3	15428.9	108136.3	605.0	70589.4	355.1	70944.6	17966.1	335.9	18302.0	56398551.2	622.9	2599.3	57188729.7

Notes:

1. Daily VMT values from Project Traffic Study.
2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
Source: CARB, 2008. Climate Change Draft Scoping Plan Appendices, Volume II: Analysis and Documentation.
3. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.
4. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
5. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. $CO_2 = 1$; $CH_4 = 25$; $N_2O = 298$

Alternative 6 Mobile Emissions Summary (2045)

Scenario	Analysis Year	Daily VMT	Annual VMT	Daily Emissions (lb/day)												
				ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Alternative 6[1]	2045	567,861,800	197,048,044,600	8,976.2	88,818.5	622,501.6	3,482.6	406,357.9	2,044.3	408,402.2	103,424.2	1,933.6	105,357.8	357,882,701.2	3,952.6	16,494.4
Employee Travel to MSF[2]	2045	14,984	5,199,275	1.4	3.3	20.4	0.1	10.7	0.1	10.8	2.7	0.05	2.8	9,632.9	0.2	0.5
			Total Mobile Emissions	**8,977.6**	**88,821.8**	**622,522.0**	**3,482.7**	**406,368.6**	**2,044.4**	**408,413.0**	**103,426.9**	**1,933.7**	**105,360.5**	**357,892,334.1**	**3,952.8**	**16,494.9**

Notes:

VMT = vehicle miles traveled

1. Daily VMT values from Project Traffic Study.

2. Accounts for employee trips to and from Operations Maintenace and Storage Facilities (main MSF and e-Bus MSF).

Alternative 6 Mobile Emissions Summary (2045)

Scenario	Analysis Year	Daily VMT	Annual VMT	Annual Emissions (tons/year) ROG	NO_x	CO	SO_x	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	Annual Emissions (metric tons) CO_2	CH_4	N_2O	CO_2e
Alternative 6[1]	2045	567,861,800	197,048,044,600	1,557.4	15,410.0	108,004.0	604.2	70,503.1	354.7	70,857.8	17,944.1	335.5	18,279.6	56,329,570.3	622.1	2,596.2	57,118,782.4
Employee Travel to MSF[2]	2045	14,984	5,199,275	0.250	0.569	3.543	0.016	1.860	0.0097	1.870	0.473	0.0092	0.483	1,516.2	0.029	0.078	1,540.3
			Total Mobile Emissions	**1,557.6**	**15,410.6**	**108,007.6**	**604.3**	**70,505.0**	**354.7**	**70,859.6**	**17,944.6**	**335.5**	**18,280.1**	**56,331,086.5**	**622.2**	**2,596.2**	**57,120,322.7**

Notes:

VMT = vehicle miles traveled

1. Daily VMT values from Project Traffic Study.

2. Accounts for employee trips to and from Operations Maintenace and Storage Facilities (main MSF and e-Bus MSF).

Mobile Emissions-Alternative 6 VMT Analysis (2045)

Alternative	Analysis Year	Daily VMT (miles/day)[1]	Days per Year[2]	Annual VMT (miles/year)	Running Emission Factor (grams/mile)[3,4]												
					ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Alternative 6	2045	567,861,800	347	197,048,044,600	0.007	0.071	0.497	0.003	0.325	0.002	0.326	0.083	0.002	0.084	285.867	0.003	0.013

Notes:

1. Daily VMT values from Project Traffic Study.
2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
Source: CARB, 2008. Climate Change Draft Scoping Plan Appendices, Volume II: Analysis and Documentation.
3. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.
4. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
5. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. CO_2 = 1; CH_4 = 25; N_2O = 298

Mobile Emissions-Alternative 6 VMT Analysis (2045)

Alternative	Analysis Year	Daily VMT (miles/day)[1]	Days per Year[2]	Annual VMT (miles/year)	Daily Emissions (lb/day)												
					ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Alternative 6	2045	567,861,800	347	197,048,044,600	8976.2	88818.5	622501.6	3482.6	406357.9	2044.3	408402.2	103424.2	1933.6	105357.8	357882701.2	3952.6	16494.4

Notes:

1. Daily VMT values from Project Traffic Study.
2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
Source: CARB, 2008. Climate Change Draft Scoping Plan Appendices, Volume II: Analysis and Documentation.
3. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.
4. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
5. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. $CO_2 = 1$; $CH_4 = 25$; $N_2O = 298$

Mobile Emissions-Alternative 6 VMT Analysis (2045)

					Annual Emissions (tons/year)										Annual Emissions (metric tons)[5]			
Alternative	Analysis Year	Daily VMT (miles/day)[1]	Days per Year[2]	Annual VMT (miles/year)	ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Alternative 6	2045	567,861,800	347	197,048,044,600	1557.4	15410.0	108004.0	604.2	70503.1	354.7	70857.8	17944.1	335.5	18279.6	56329570.3	622.1	2596.2	57118782.4

Notes:

1. Daily VMT values from Project Traffic Study.
2. Annual miles are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
Source: CARB, 2008. Climate Change Draft Scoping Plan Appendices, Volume II: Analysis and Documentation.
3. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.
4. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
5. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. $CO_2 = 1$; $CH_4 = 25$; $N_2O = 298$

Mobile Emissions-Employee Travel (2045)

Alternative	Analysis Year	Employees per day[1]	Daily One-Way Trips[2]	One-Way Trip Length (miles)[3]	Daily VMT (miles/day)	Days per Year[4]	Trips per Year	Annual VMT (miles/year)	Running Emission Factor (grams/mile)[5,6]												
									ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Alternative 6	2045	525	1,050	14.3	14,984	347	364,350	5,199,275	0.01	0.07	0.50	0.003	0.32	0.002	0.33	0.08	0.002	0.08	285.87	0.003	0.01

Notes:

1. Data provided by HTA team.
2. Accounts for employee trips to and from main MSF and e-Bus MSF.
3. Trip length based on CalEEMod default value for Non-Residential Home-Work trip length for Commercial Building.
4. Annual miles and trips are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
   Source: CARB, 2008. Climate Change Draft Scoping Plan
5. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.
6. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
7. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
8. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. $CO_2 = 1$; $CH_4 = 25$; $N_2O = 298$

Mobile Emissions-Employee Travel (2045)

Alternative	Analysis Year	Employees per day[1]	Daily One-Way Trips[2]	One-Way Trip Length (miles)[3]	Daily VMT (miles/day)	Days per Year[4]	Trips per Year	Annual VMT (miles/year)	Non-Running Emission Factor (grams/trip)[5,7]												
									ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Alternative 6	2045	525	1,050	14.3	14,984	347	364,350	5,199,275	0.52	0.41	1.73	0.00	-	0.00	0.00	-	0.00	0.00	82.01	0.03	0.03

Notes:

1. Data provided by HTA team.
2. Accounts for employee trips to and from main MSF and e-Bus MSF.
3. Trip length based on CalEEMod default value for Non-Residential Home-Work trip length for Commercial Building.
4. Annual miles and trips are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
   Source: CARB, 2008. Climate Change Draft Scoping Plan
5. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.
6. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
7. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
8. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. $CO_2 = 1$; $CH_4 = 25$; $N_2O = 298$

Mobile Emissions-Employee Travel (2045)

Alternative	Analysis Year	Employees per day[1]	Daily One-Way Trips[2]	One-Way Trip Length (miles)[3]	Daily VMT (miles/day)	Days per Year[4]	Trips per Year	Annual VMT (miles/year)	Daily Emissions (lb/day)												
									ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O
Alternative 6	2045	525	1,050	14.3	14,984	347	364,350	5,199,275	1.44	3.28	20.42	0.09	10.72	0.06	10.78	2.73	0.05	2.78	9632.87	0.18	0.50

Notes:

1. Data provided by HTA team.
2. Accounts for employee trips to and from main MSF and e-Bus MSF.
3. Trip length based on CalEEMod default value for Non-Residential Home-Work trip length for Commercial Building.
4. Annual miles and trips are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
   Source: CARB, 2008. Climate Change Draft Scoping Plan
5. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.
6. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
7. Non-Running emission factors account for additional exhaust and evaporative processes. **Exhaust:** Engine starting and idling. **Evaporative (ROG Only):** Runloss, Diurnal, and Hotsoak.
8. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. $CO_2 = 1$; $CH_4 = 25$; $N_2O = 298$

Mobile Emissions-Employee Travel (2045)

Alternative	Analysis Year	Employees per day[1]	Daily One-Way Trips[2]	One-Way Trip Length (miles)[3]	Daily VMT (miles/day)	Days per Year[4]	Trips per Year	Annual VMT (miles/year)	Annual Emissions (tons/year)										Annual Emissions (metric tons)[8]			
									ROG	NO_X	CO	SO_X	PM_{10} Fugitive	PM_{10} Exhaust	PM_{10} Total	$PM_{2.5}$ Fugitive	$PM_{2.5}$ Exhaust	$PM_{2.5}$ Total	CO_2	CH_4	N_2O	CO_2e
Alternative 6	2045	525	1,050	14.3	14,984	347	364,350	5,199,275	0.250	0.569	3.543	0.016	1.860	0.010	1.870	0.473	0.009	0.483	1516.2	0.029	0.078	1540.3

Notes:

1. Data provided by HTA team.
2. Accounts for employee trips to and from main MSF and e-Bus MSF.
3. Trip length based on CalEEMod default value for Non-Residential Home-Work trip length for Commercial Building.
4. Annual miles and trips are calculated using a factor of 347 to account for reduced weekend and holiday mileage.
   Source: CARB, 2008. Climate Change Draft Scoping Plan
5. Emission factors generated from EMFAC2021. **Region:** South Coast AQMD; **Season:** Annual; **Vehicle Classification:** EMFAC2007 Categories; **Model Year:** Aggregate; **Speed:** Aggregate; **Vehicle Category:** All Vehicle Types; **Fuel Type:** All fuels.
6. Running emission factors account for exhaust and fugitive dust from brake wear, tire wear, and road dust from paved roads.
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8. CO_2e is estimated using Global Warming Potential values based on IPCC Assessment Report 4 (AR4) in accordance with CARB methodology. $CO_2 = 1$; $CH_4 = 25$; $N_2O = 298$

Daily Paved Road Dust Emission Factor[1]

$$E_{ext} = [\, k\,(sL)^{0.91} \times (W)^{1.02} \,]\,(1 - P/4N)$$

Parameter	Description	Source:
E_{ext}	Annual or other long-term average emission factor in the same units as k	USEPA AP-42, Paved Roads Methodology
k	Particle size multiplier for particle size range and units of interest	CalEEMod Default Value
sL	road surface silt loading (g/m^2)	CalEEMod Default Value
W	average weight (tons) of all the vehicles raveling the road (2.4 tons)	CalEEMod Default Value
P	Number of "wet" days with at least 0.254 mm (0.01 in) of precipitation during the averaging period	Avg of CalEEMod default values for Van Nuys and Santa Monica
N	Number of days in the averaging period (e.g. 365 for annual, 91 for seasonal, 30 for monthly)	CalEEMod Default Value

Parameters	PM_{10}	$PM_{2.5}$
k (g/VMT)	1.000	0.250
sL (g/m^2)	0.1	0.1
W (tons)	2.4	2.4
P ("wet" days)[2]	19.1	19.1
N (days per year)	365	365
EF without natural dust control (precipitation) (g/mi)	3.00E-01	7.51E-02

Notes:

1. AP42, Section 13.2.1 Paved Roads, January 2011
2. Consistent with Appendix C of the CalEEMod User's Guide, daily road dust emission factors do not account for a precipitation adjustment.

MSF Operations CalEEMod Output Report

STC Alt 6-MSF Operations Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	STC Alt 6-MSF Operations
Operational Year	2045
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	18.6
Location	34.161408580478565, -118.46757420370866
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	3863
EDFZ	17
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.24

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
General Office Building	90.7	1000sqft	2.08	90,749	4,537	—	—	—

Unrefrigerated Warehouse-No Rail	18.5	1000sqft	0.42	18,474	924	—	—	—
Parking Lot	352	Space	3.17	0.00	6,882	—	—	—
Other Non-Asphalt Surfaces	35.3	Acre	35.3	0.00	76,954	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.72	3.66	0.04	4.75	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	93.9	598	692	9.49	0.10	0.22	958
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.87	2.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	93.9	579	673	9.49	0.10	0.22	938
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.45	3.41	0.03	3.25	< 0.005	0.01	0.00	0.01	< 0.005	0.00	< 0.005	93.9	592	686	9.49	0.10	0.22	952
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.63	0.62	< 0.005	0.59	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	15.6	98.0	114	1.57	0.02	0.04	158

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	3.72	3.66	0.04	4.75	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.5	19.5	< 0.005	< 0.005	—	19.6
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	544	544	0.00	0.00	—	544
Water	—	—	—	—	—	—	—	—	—	—	—	39.1	35.1	74.2	4.01	0.10	—	203
Waste	—	—	—	—	—	—	—	—	—	—	—	54.8	0.00	54.8	5.48	0.00	—	192
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.22	0.22
Total	3.72	3.66	0.04	4.75	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	93.9	598	692	9.49	0.10	0.22	958
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	2.87	2.87	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	544	544	0.00	0.00	—	544
Water	—	—	—	—	—	—	—	—	—	—	—	39.1	35.1	74.2	4.01	0.10	—	203
Waste	—	—	—	—	—	—	—	—	—	—	—	54.8	0.00	54.8	5.48	0.00	—	192
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.22	0.22
Total	2.87	2.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	93.9	579	673	9.49	0.10	0.22	938
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	3.45	3.41	0.03	3.25	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	13.4	13.4	< 0.005	< 0.005	—	13.4
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	544	544	0.00	0.00	—	544
Water	—	—	—	—	—	—	—	—	—	—	—	39.1	35.1	74.2	4.01	0.10	—	203
Waste	—	—	—	—	—	—	—	—	—	—	—	54.8	0.00	54.8	5.48	0.00	—	192

Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.22	0.22
Total	3.45	3.41	0.03	3.25	< 0.005	0.01	0.00	0.01	< 0.005	0.00	< 0.005	93.9	592	686	9.49	0.10	0.22	952
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	0.63	0.62	< 0.005	0.59	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.22	2.22	< 0.005	< 0.005	—	2.22
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	90.0	90.0	0.00	0.00	—	90.0
Water	—	—	—	—	—	—	—	—	—	—	—	6.47	5.81	12.3	0.66	0.02	—	33.6
Waste	—	—	—	—	—	—	—	—	—	—	—	9.08	0.00	9.08	0.91	0.00	—	31.8
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04	0.04
Total	0.63	0.62	< 0.005	0.59	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	15.6	98.0	114	1.57	0.02	0.04	158

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	473	473	0.00	0.00	—	473
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	41.3	41.3	0.00	0.00	—	41.3
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	29.1	29.1	0.00	0.00	—	29.1
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	544	544	0.00	0.00	—	544
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	473	473	0.00	0.00	—	473

Unrefrige Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	41.3	41.3	0.00	0.00	—	41.3
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	29.1	29.1	0.00	0.00	—	29.1
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	544	544	0.00	0.00	—	544
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	78.3	78.3	0.00	0.00	—	78.3
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	6.85	6.85	0.00	0.00	—	6.85
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	4.83	4.83	0.00	0.00	—	4.83
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	90.0	90.0	0.00	0.00	—	90.0

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Unrefrigerated	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	2.47	2.47	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.41	0.41	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.85	0.78	0.04	4.75	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.5	19.5	< 0.005	< 0.005	—	19.6
Total	3.72	3.66	0.04	4.75	< 0.005	0.01	—	0.01	0.01	—	0.01	—	19.5	19.5	< 0.005	< 0.005	—	19.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	2.47	2.47	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architect Coatings	0.41	0.41	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	2.87	2.87	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.45	0.45	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.07	0.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.11	0.10	< 0.005	0.59	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.22	2.22	< 0.005	< 0.005	—	2.22
Total	0.63	0.62	< 0.005	0.59	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.22	2.22	< 0.005	< 0.005	—	2.22

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	30.9	26.6	57.5	3.17	0.08	—	159
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	8.19	7.03	15.2	0.84	0.02	—	42.1

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.12	0.12	0.00	0.00	—	0.12
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	1.38	1.38	0.00	0.00	—	1.38
Total	—	—	—	—	—	—	—	—	—	—	—	39.1	35.1	74.2	4.01	0.10	—	203
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	30.9	26.6	57.5	3.17	0.08	—	159
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	8.19	7.03	15.2	0.84	0.02	—	42.1
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.12	0.12	0.00	0.00	—	0.12
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	1.38	1.38	0.00	0.00	—	1.38
Total	—	—	—	—	—	—	—	—	—	—	—	39.1	35.1	74.2	4.01	0.10	—	203
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	5.12	4.40	9.51	0.52	0.01	—	26.3
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	1.36	1.16	2.52	0.14	< 0.005	—	6.98
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.02	0.02	0.00	0.00	—	0.02

Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.23	0.23	0.00	0.00	—	0.23
Total	—	—	—	—	—	—	—	—	—	—	—	6.47	5.81	12.3	0.66	0.02	—	33.6

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	45.5	0.00	45.5	4.55	0.00	—	159
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	9.36	0.00	9.36	0.94	0.00	—	32.7
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	54.8	0.00	54.8	5.48	0.00	—	192
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	45.5	0.00	45.5	4.55	0.00	—	159

Unrefrige Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	9.36	0.00	9.36	0.94	0.00	—	32.7
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	54.8	0.00	54.8	5.48	0.00	—	192
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	7.53	0.00	7.53	0.75	0.00	—	26.3
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	1.55	0.00	1.55	0.15	0.00	—	5.42
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	9.08	0.00	9.08	0.91	0.00	—	31.8

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.22	0.22
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.22	0.22
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.22	0.22
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.22	0.22
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04	0.04
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04	0.04

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	163,835	54,612	100,618

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
General Office Building	1,962,310	88.0	0.0000	0.0000	0.00
Unrefrigerated Warehouse-No Rail	171,506	88.0	0.0000	0.0000	0.00
Parking Lot	120,886	88.0	0.0000	0.0000	0.00
Other Non-Asphalt Surfaces	0.00	88.0	0.0000	0.0000	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Office Building	16,129,160	63,630
Unrefrigerated Warehouse-No Rail	4,272,113	12,959
Parking Lot	0.00	96,517
Other Non-Asphalt Surfaces	0.00	1,079,248

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Office Building	84.4	—
Unrefrigerated Warehouse-No Rail	17.4	—
Parking Lot	0.00	—
Other Non-Asphalt Surfaces	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	15.4	annual days of extreme heat
Extreme Precipitation	7.15	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	2	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A

Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	2	1	1	3
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	80.0
AQ-PM	68.9
AQ-DPM	79.9
Drinking Water	83.1
Lead Risk Housing	43.8
Pesticides	0.00
Toxic Releases	64.7
Traffic	99.8
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	14.3
Haz Waste Facilities/Generators	40.9
Impaired Water Bodies	77.3
Solid Waste	0.00
Sensitive Population	—
Asthma	37.7
Cardio-vascular	69.7
Low Birth Weights	73.3
Socioeconomic Factor Indicators	—
Education	23.7
Housing	57.4
Linguistic	25.6
Poverty	28.2
Unemployment	74.1

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	75.74746567
Employed	87.75824458
Median HI	58.59104324
Education	—
Bachelor's or higher	84.51174131
High school enrollment	100
Preschool enrollment	95.7141024
Transportation	—
Auto Access	45.25856538
Active commuting	52.31618119
Social	—
2-parent households	93.32734505
Voting	0.654433466
Neighborhood	—
Alcohol availability	29.15436931
Park access	23.72642115
Retail density	81.59887078
Supermarket access	31.14333376
Tree canopy	66.90619787
Housing	—
Homeownership	39.93327345
Housing habitability	38.27794174
Low-inc homeowner severe housing cost burden	10.18863082

Low-inc renter severe housing cost burden	48.80020531
Uncrowded housing	96.93314513
Health Outcomes	—
Insured adults	46.81124086
Arthritis	73.2
Asthma ER Admissions	67.3
High Blood Pressure	79.9
Cancer (excluding skin)	30.9
Asthma	69.3
Coronary Heart Disease	77.0
Chronic Obstructive Pulmonary Disease	79.3
Diagnosed Diabetes	89.8
Life Expectancy at Birth	81.3
Cognitively Disabled	93.6
Physically Disabled	55.6
Heart Attack ER Admissions	14.6
Mental Health Not Good	73.6
Chronic Kidney Disease	85.5
Obesity	67.3
Pedestrian Injuries	79.9
Physical Health Not Good	81.0
Stroke	80.6
Health Risk Behaviors	—
Binge Drinking	10.6
Current Smoker	71.8
No Leisure Time for Physical Activity	90.4
Climate Change Exposures	—

Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	64.0
Elderly	56.5
English Speaking	57.1
Foreign-born	53.9
Outdoor Workers	52.2
Climate Change Adaptive Capacity	—
Impervious Surface Cover	44.9
Traffic Density	98.7
Traffic Access	72.0
Other Indices	—
Hardship	11.1
Other Decision Support	—
2016 Voting	42.4

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	65.0
Healthy Places Index Score for Project Location (b)	67.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Characteristics: Utility Information	This is a forecasted CO2e Intensity Factor for LADWP in 2045. SB100 will require electricity provided to customers to be from 100% renewable sources by 2045. SB100 allows for the use of renewable energy credits, which allows for natural gas to provide up to 10% of power generation, therefore the CO2e Intensity Factor accounts for some electricity generated from natural gas. Because it is a CO2e intensity factor, intensity factors for CH4 and N2O were zeroed-out.
Operations: Vehicle Data	Mobile emissions for employees at MSF calculated outside of CalEEMod.
Operations: Energy Use	For Office Buildings and other MSF buildings categorized as Unrefrigerated Warehouse, CalEEMod generated default annual electricity (kWh) and natural gas consumption in kBTU/year, however, in accordance with the City of LA Municipal Code, all new buildings would be required to be all-electric buildings. Therefore, the annual natural gas consumption value (kBTU) was converted to kWh to account for the additional electricity consumption that is substituted for natural gas, and then added to the default electricity consumption value.

Station Operations CalEEMod Output Report

STC Alt 6-Station Operations Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	STC Alt 6-Station Operations
Operational Year	2045
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	18.6
Location	34.16190965595786, -118.46818331880685
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	3863
EDFZ	17
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.24

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Enclosed Parking with Elevator	2,502	1000sqft	19.1	2,502,000	41,700	—	—	—

Parking Lot	580	Space	5.22	0.00	11,367	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	19.6	18.1	0.92	109	0.01	0.19	0.00	0.19	0.15	0.00	0.15	0.00	2,723	2,723	0.02	< 0.005	0.00	2,725
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2,276	2,276	0.00	0.00	0.00	2,276
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	13.5	12.5	0.63	74.5	< 0.005	0.13	0.00	0.13	0.10	0.00	0.10	0.00	2,582	2,582	0.01	< 0.005	0.00	2,583
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.46	2.28	0.11	13.6	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	428	428	< 0.005	< 0.005	0.00	428

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	19.6	18.1	0.92	109	0.01	0.19	—	0.19	0.15	—	0.15	—	447	447	0.02	< 0.005	—	449
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	2,275	2,275	0.00	0.00	—	2,275
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.95	0.95	0.00	0.00	—	0.95
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	19.6	18.1	0.92	109	0.01	0.19	0.00	0.19	0.15	0.00	0.15	0.00	2,723	2,723	0.02	< 0.005	0.00	2,725
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	0.22	0.22	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	2,275	2,275	0.00	0.00	—	2,275
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.95	0.95	0.00	0.00	—	0.95
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	0.22	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2,276	2,276	0.00	0.00	0.00	2,276
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	13.5	12.5	0.63	74.5	< 0.005	0.13	—	0.13	0.10	—	0.10	—	306	306	0.01	< 0.005	—	308
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	2,275	2,275	0.00	0.00	—	2,275
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.95	0.95	0.00	0.00	—	0.95
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	13.5	12.5	0.63	74.5	< 0.005	0.13	0.00	0.13	0.10	0.00	0.10	0.00	2,582	2,582	0.01	< 0.005	0.00	2,583
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	2.46	2.28	0.11	13.6	< 0.005	0.02	—	0.02	0.02	—	0.02	—	50.7	50.7	< 0.005	< 0.005	—	50.9

Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	377	377	0.00	0.00	—	377
Water	—	—	—	—	—	—	—	—	—	—	—	0.00	0.16	0.16	0.00	0.00	—	0.16
Waste	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	2.46	2.28	0.11	13.6	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	428	428	< 0.005	< 0.005	0.00	428

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	2,227	2,227	0.00	0.00	—	2,227
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	48.0	48.0	0.00	0.00	—	48.0
Total	—	—	—	—	—	—	—	—	—	—	—	—	2,275	2,275	0.00	0.00	—	2,275
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	2,227	2,227	0.00	0.00	—	2,227

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	48.0	48.0	0.00	0.00	—	48.0
Total	—	—	—	—	—	—	—	—	—	—	—	—	2,275	2,275	0.00	0.00	—	2,275
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	369	369	0.00	0.00	—	369
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	7.95	7.95	0.00	0.00	—	7.95
Total	—	—	—	—	—	—	—	—	—	—	—	—	377	377	0.00	0.00	—	377

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.08	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.13	0.13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	19.4	17.9	0.92	109	0.01	0.19	—	0.19	0.15	—	0.15	—	447	447	0.02	< 0.005	—	449
Total	19.6	18.1	0.92	109	0.01	0.19	—	0.19	0.15	—	0.15	—	447	447	0.02	< 0.005	—	449

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.08	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.13	0.13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.22	0.22	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	2.42	2.24	0.11	13.6	< 0.005	0.02	—	0.02	0.02	—	0.02	—	50.7	50.7	< 0.005	< 0.005	—	50.9
Total	2.46	2.28	0.11	13.6	< 0.005	0.02	—	0.02	0.02	—	0.02	—	50.7	50.7	< 0.005	< 0.005	—	50.9

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.75	0.75	0.00	0.00	—	0.75
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.20	0.20	0.00	0.00	—	0.20
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.95	0.95	0.00	0.00	—	0.95
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.75	0.75	0.00	0.00	—	0.75
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.20	0.20	0.00	0.00	—	0.20
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.95	0.95	0.00	0.00	—	0.95
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.12	0.12	0.00	0.00	—	0.12
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.03	0.03	0.00	0.00	—	0.03
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.16	0.16	0.00	0.00	—	0.16

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	37,538	4,171	63,693

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Enclosed Parking with Elevator	9,235,962	88.0	0.0000	0.0000	0.00
Parking Lot	199,188	88.0	0.0000	0.0000	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Enclosed Parking with Elevator	0.00	584,825
Parking Lot	0.00	159,417

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Enclosed Parking with Elevator	0.00	—
Parking Lot	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	15.4	annual days of extreme heat
Extreme Precipitation	7.15	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth

Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	2	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	2	1	1	3

Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	80.0
AQ-PM	68.9
AQ-DPM	79.9
Drinking Water	83.1
Lead Risk Housing	43.8
Pesticides	0.00
Toxic Releases	64.7
Traffic	99.8

Effect Indicators	—
CleanUp Sites	0.00
Groundwater	14.3
Haz Waste Facilities/Generators	40.9
Impaired Water Bodies	77.3
Solid Waste	0.00
Sensitive Population	—
Asthma	37.7
Cardio-vascular	69.7
Low Birth Weights	73.3
Socioeconomic Factor Indicators	—
Education	23.7
Housing	57.4
Linguistic	25.6
Poverty	28.2
Unemployment	74.1

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	75.74746567
Employed	87.75824458
Median HI	58.59104324
Education	—
Bachelor's or higher	84.51174131
High school enrollment	100

Preschool enrollment	95.7141024
Transportation	—
Auto Access	45.25856538
Active commuting	52.31618119
Social	—
2-parent households	93.32734505
Voting	0.654433466
Neighborhood	—
Alcohol availability	29.15436931
Park access	23.72642115
Retail density	81.59887078
Supermarket access	31.14333376
Tree canopy	66.90619787
Housing	—
Homeownership	39.93327345
Housing habitability	38.27794174
Low-inc homeowner severe housing cost burden	10.18863082
Low-inc renter severe housing cost burden	48.80020531
Uncrowded housing	96.93314513
Health Outcomes	—
Insured adults	46.81124086
Arthritis	73.2
Asthma ER Admissions	67.3
High Blood Pressure	79.9
Cancer (excluding skin)	30.9
Asthma	69.3
Coronary Heart Disease	77.0

Chronic Obstructive Pulmonary Disease	79.3
Diagnosed Diabetes	89.8
Life Expectancy at Birth	81.3
Cognitively Disabled	93.6
Physically Disabled	55.6
Heart Attack ER Admissions	14.6
Mental Health Not Good	73.6
Chronic Kidney Disease	85.5
Obesity	67.3
Pedestrian Injuries	79.9
Physical Health Not Good	81.0
Stroke	80.6
Health Risk Behaviors	—
Binge Drinking	10.6
Current Smoker	71.8
No Leisure Time for Physical Activity	90.4
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	64.0
Elderly	56.5
English Speaking	57.1
Foreign-born	53.9
Outdoor Workers	52.2
Climate Change Adaptive Capacity	—
Impervious Surface Cover	44.9
Traffic Density	98.7

Traffic Access	72.0
Other Indices	—
Hardship	11.1
Other Decision Support	—
2016 Voting	42.4

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	65.0
Healthy Places Index Score for Project Location (b)	67.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification

Characteristics: Utility Information	This is a forecasted CO2e Intensity Factor for LADWP in 2045. SB100 will require electricity provided to customers to be from 100% renewable sources by 2045. SB100 allows for the use of renewable energy credits, which allows for natural gas to provide up to 10% of power generation, therefore the CO2e Intensity Factor accounts for some electricity generated from natural gas. Because it is a CO2e intensity factor, intensity factors for CH4 and N2O were zeroed-out.
Land Use	CalEEMod does not have train station land use types, therefore, stations were represented using the "Enclosed Parking with Elevators" land use type. This land use type was selected because it accounts for electricity consumption from elevators and ventilation systems. The building area represents the station area for all stations in this alternative. It was also assumed 5 percent of the lot acreage would be landscaped.

Alignment Electricity Consumption

Alternative 6 Track Alignment Electricity Consumption

Station Consumption[1]

Alt 6 Station Name	STATION Monthly Consumption-90th Percentile (kWh)	Months per year	Annual Consumption (kWh)	Annual Consumption (MWh)
Metro E Line Station	79,168	12	950,016	950
Santa Monica Blvd Station	79,168	12	950,016	950
D Line Wilshire Station	79,168	12	950,016	950
UCLA Station	79,168	12	950,016	950
Ventura Blvd Station	79,168	12	950,016	950
Metro G Line Station	79,168	12	950,016	950
Metrolink Van Nuys Station	79,168	12	950,016	950
	554,176		**6,650,112**	**6,650**

Alt 6 Alignment Length (miles)
12.8

TPSS Consumption[1]

Total Monthly TPSS Electricity Consumption (kWh) per 14.8 miles (Redline Route Length Estimate)	Alt 6 Total Monthly TPSS Electricity Consumption (kWh)	Months per year	Annual Consumption (kWh)	Annual Consumption (MWh)
4,316,936	3,733,567	12	44,802,798.53	**44,802.80**

	Annual Consumption (MWh)
Ventilation System for Tunnel (assuming 20% of track [substation] consumption)[3]	**8,960.56**

Total	**60,413**

Electricity Consumption

HTA Alternative	Annual Consumption (MWh)	2045 LADWP CO_2e Intensity Factor (lb/MWh)[2]	Annual GHG Emissions ($MTCO_2e$/yr)
Alternative 6	60,413	88	2412.7

Notes:

1. Electricity consumption values based on LA Metro Redline Fiscal Year 2022 data. Accounts for electricity consumption from traction power along the alignment and at stations.

2. This is a forecasted CO_2e Intensity Factor for LADWP in 2045. SB100 will require electricity provided to customers to be from 100% renewable sources by 2045. SB100 allows for the use of renewable energy credits, thus allowing for the combustion of natural gas to provide up to 10% of generation, thus the CO_2e Intensity Factor accounts for some electricity generated from natural gas.

3. This is an assumption to account for electricity consumtion related to ventilation along the tunnel alignment.

lb = pound

kWh = kilowatt-hour

MWh = Megawatt-hour

LADWP Forecasted CO_2e Intensity Factor Calculation for 2045

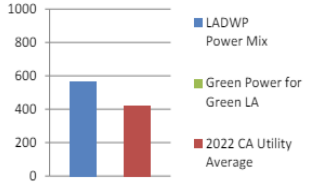
LADWP GHG Intensity Factors

2022 CO_2e Intensity Factor (lb/MWh)[1]
567

	2022 to 2045				
Resource Type	**2022 CO_2e Intensity Factor (lb/MWh)**	**2022 Power Mix**	**2045 Power Mix**	**% Change**	**2045 CO_2e Intensity Factor (lb/MWh)**
Renewables	0.0	35.6%	90%	153%	0.0
Non-Renewables	567.0	64.4%	10%	-84%	88.0
Totals	**567.0**	**100%**	**100%**	**N/A**	**88.0**

2022 POWER CONTENT LABEL
LADWP
https://www.ladwp.com/powercontent

Greenhouse Gas Emissions Intensity (lbs CO_2e/MWh)			Energy Resources	LADWP Power Mix	Green Power for Green LA	2022 CA Power Mix
LADWP Power Mix	Green Power for Green LA	2022 CA Utility Average	**Eligible Renewable**[1]	**35.6%**	**100.0%**	**35.8%**
567	0	422	Biomass & Biowaste	0.1%	0.0%	2.1%
			Geothermal	7.5%	0.0%	4.7%
			Eligible Hydroelectric	0.6%	0.0%	1.1%
			Solar	14.1%	100.0%	17.0%
			Wind	13.3%	0.0%	10.8%
			Coal	**12.6%**	**0.0%**	**2.1%**
			Large Hydroelectric	**4.0%**	**0.0%**	**9.2%**
			Natural Gas	**34.5%**	**0.0%**	**36.4%**
			Nuclear	**13.3%**	**0.0%**	**9.2%**
			Other	**0.0%**	**0.0%**	**0.1%**
			Unspecified Power[2]	**0.0%**	**0.0%**	**7.1%**
			TOTAL	**100.0%**	**100.0%**	**100.0%**
			Percentage of Retail Sales Covered by Retired Unbundled RECs[3]**:**	**3%**	**0%**	



[1]The eligible renewable percentage above does not reflect RPS compliance, which is determined using a different methodology.
[2]Unspecified power is electricity that has been purchased through open market transactions and is not traceable to a specific generation source.
[3]Renewable energy credits (RECs) are tracking instruments issued for renewable generation. Unbundled renewable energy credits (RECs) represent renewable generation that was not delivered to serve retail sales. Unbundled RECs are not reflected in the power mix or GHG emissions intensities above.
The unbundled RECs retired in association with LADWP's 2022 electricity portfolios were sourced from eligible renewable energy generators such as biomass, biowaste, geothermal, eligible hydroelectric, solar, and wind energy resources.

For specific information about this electricity portfolio, contact:	**Los Angeles Department of Water and Power 1-800-DIAL-DWP**
For general information about the Power Content Label, visit:	https://www.energy.ca.gov/programs-and-topics/programs/power-source-disclosure-program

Notes:

1. LADWP, 2022. Power Content Label
2. SB100 would require renewable energy and zero-carbon resources to supply 100 percent of electric retail sales to end-use customers by 2045. Los Angeles Department of Water and Power (LADWP) Strategic Long-Term Resource Plan (SLTRP) was developed to meet this requirement and even exceed this requirement by meeting the 100% renewables goal by 2035. To be conservative, it was assumed that LADWP's power mix would be compliant with SB100's standard schedule of 2045 due to uncertainty in assumptions made to meet the 2035 date. SB100 allows for the use of renewable energy credits which are a market-based mechanism to help meet renewable energy targets. This allows natural gas generation to help meet the 100% target if offset by the purchase of RECs. Therefore, it was assumed that natural gas could provide up to 10% of electricity generation in 2045, thus the CO_2e Intensity Factor accounts for some electricity generated from natural gas.